Volume 166 No. 14

Oil, Paint and Drug Reporter

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October 4 1954

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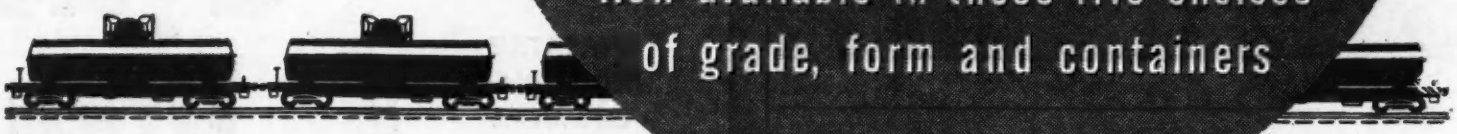

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Oil, Paint and Drug Reporter

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FDA Evaluation Group To Be Organized Soon

Appointment of an evaluation committee to review the work of the Food and Drug Administration from the standpoint of its needs for larger appropriations and increased manpower is being given active consideration by officials of the Department of Health, Education and Welfare.

It was stated last week that announcement of the membership of the committee may be made later this month. Officials now are considering the question of the size of the committee in view of the amount of funds available. Because of a shortage of appropriations in the department's current budget, Secretary Oveta Culp Hobby has allotted only slightly more than $20,000 to the committee.

Smallness of Funds Key Factor

If it is decided to include on the survey committee representatives of the consumers, labor and all of the industries that have an interest in the work of the FDA, it is considered questionable in some quarters whether the amount allotted will be sufficient to do a thorough job. A smaller group working as consultants or on a part-time basis could conceivably stay within the fund limit, but whether they could do the job desired is a matter of speculation.

Importance of this study has been recognized by the food and drug industries because the recommendations of the committee may have an important relationship to future activities and regulations of the agency, as well as its appropriations for enforcement work. A group from the drug industry has made plans to discuss the committee this week with assistant secretary J. Bradshaw Mintener.

They are A. K. Fiske, president of the American Drug Manufacturers Association; Dr. E. H. Volwiler, president of Abbott Laboratories, and J. J. Kerrigan, president of Merck & Co. They will urge that the industries regulated by FDA—pharmaceutical, cosmetic, food and related chemical industries—be represented as broadly as possible by the survey committee.

Raising FDA's Prestige Is Aim

It will be the task of the group to attempt to raise the prestige of FDA in the eyes of congress as much as anything else. For a number of years, the agency has been having increasing difficulties with congress, especially in getting adequate funds for its enforcement activities. For the past several years congress has cut the appropriation for FDA below the recommendations of the Budget Bureau while, at the same time, adding to the responsibilities of the agency to regulate sales of oleomargerine and the use of chemical pesticides.

Insecticide Bids Revealed For Turkish Government

Successful bidders for the contracts offered by the Turkish Economic Mission under the bid opening September 9 (OPD, 8/23/54) for purchase of malaria fighting equipment, including certain chemical insecticides, were announced last week. They were:—

DDT, technical grade, R. W. Greeff & Co., New York, 187.5 metric tons at $23.94 per 100 pounds, c. & f., Istanbul.

DDT, 75 percent water wettable powder, Stauffer Chemical Company, New York, 450 metric tons at $25.15 per 100 pounds, c. & f., Istanbul.

"Triton X-100," Rohm & Haas Company, Philadelphia, 14,198 liters at $30,125 per 100 gallons, c. & f., Istanbul.

Xylol, Crowley Tar Products Company, New York, 234,195 liters at $59.89 per 100 gallons, c. & f., Istanbul.

Spraying equipment, H. D. Hudson Manufacturing Company, 375 sprayers at $15.67 each; $5,026.80 for spare parts, and $1,123.50 for 1000 meters of hose, all c. & f., Istanbul.

Oil Lands Up for Bid Sale

The Bureau of Land Management announced last week that about 5,114 acres of New Mexico land will be offered for oil and gas leasing at a competitive bid sale to be held at 1 p.m., October 15, by the director of the bureau in Washington, D. C. The land is located within the known geologic structures of certain producing fields in Eddy and Lea Counties, N. M., which are located ten to forty miles easterly from the town Artesia.

Spaniards Making Bid For Fluorspar Market

Spanish fluorspar producers have taken steps to break into the United States market for fluorspar, the Bureau of Foreign Commerce revealed last week.

The bureau stated that as of September 1 the Spanish export exchange rate for fluorspar was increased from 30.65 pesetas to the US dollar to 37.65 pesetas. It was explained that this rate change was accomplished through the unified efforts of fluorspar producers who wanted a rate of exchange that would permit them to compete on the US market with fluorspar from other countries, particularly Mexico.

Brooklyn Paint Antitrust Settlement Terms Written

A Federal Trade Commission hearing examiner has approved a consent order in settlement of a restraint of trade case against the Brooklyn Paint & Wallpaper Dealers Association, FTC announced last week. In announcing the ruling, the agency pointed out that it is not a final decision but is subject to commission review.

Hearing examiner Frank Hier issued an initial decision prohibiting the association and its members from entering into or carrying out any agreement to "classify any particular purchaser or group of purchasers as legitimate paint and wallpaper dealers for the purpose or with the effect of classifying other purchasers as illegitimate paint and wallpaper dealers."

The association is also banned from asking manufacturers or other suppliers to refrain from selling or offering to sell paint, wallpaper or related merchandise to any buyer, from boycotting any manufacturer or supplier, and from using the offices of any representative in any association or other agency to perform or to aid or abet in the performance of any practice banned by the order. The decision cites not only the association but also its officers, board of governors and members. It specifically names eighteen firms as representatives of the entire membership.

FTC Commissioner Sworn

Former congressman Robert T. Secrest, of Ohio, was sworn in last week as a member of the Federal Trade Commission. Appointed to a seven-year term on the commission by President Eisenhower, Mr. Secrest was unanimously confirmed by the senate July 2. He succeeds Albert A. Carretta.

Offshore Leases Compromise Worked Out by US, Louisiana

Louisiana officials agreed at a two-day conference last week with the Department of the Interior to call off its proposed October 13 sale of oil and gas leases on eighty-eight tracts of land off the Louisiana coast. The department, in turn, agreed to refuse bids on nine of the eighty-eight tracts.

A conflict of ownership between Louisiana and the federal government has developed over these lands, with the state claiming that its border extends ten and one-half miles into the Gulf of Mexico, while the department claims title to all lands beyond three miles from the low-water mark. Both the state and the federal government had intended to sell leases on the lands the same day—October 13.

Under the agreement, Louisiana cancelled its proposed sale and the department decided to hold up sale of leases on nine tracts unless a new agreement is reached disposing of the ownership question before the bid opening date. Proposed sale of leases on 100 other tracts of continental shelf lands by the department will go forward as planned.

The department said that, if necessary, proceeds from the leases in the disputed area will be impounded until the supreme court decides whether the federal government or Louisiana has title to the area in question. The issue could be settled either by conference action between the state and federal government, by a congressional bill clarifying the title question, or by court action.

Klumpp Chosen Hoover Medical Task Force Head

Former President Herbert Hoover has named Dr. Theodore G. Klumpp, president of Winthrop-Stearns, Inc., New York, chairman of the task force on medical services of the Hoover Commission on Organization of the Executive Branch of the Government. Dr. Klumpp, who has been a member of the task force from its beginning last year, succeeds the late Chauncey McCormick of Chicago, who died early in September.

Objectives of the group are to provide medical care for beneficiaries of the federal medical program; to create a better foundation for training and medical service in federal agencies; to reduce the drain of doctors away from private practice; to provide better organization for medical research, and to provide a better state of medical preparedness in event of war.

Dr. Klumpp was chief of the Food and Drug Administration's drug division from 1936 to 1941. Just prior to becoming president of Winthrop-Stearns, he was director of drugs, foods and physical therapy and secretary of the Council on Pharmacy and Chemistry of the American Medical Association.

Italy Ready to Permit Drug Process Patents

The State department last week received confirmation of reports that the patent appeals commission in Italy is prepared to rule favorably on the patentability of some 500 or more pharmaceutical process patents, including many of United States origin. Officials stated that they are now awaiting the formal announcement and a text of the ruling is expected at any time.

The commission's decision to permit the issuance of patents in this field marks a major victory for the pharmaceutical manufacturers all over the world who have seen their patented processes freely exploited by Italian producers without fear of penalty or restraint by the Italian government. Besides the American drug manufacturers, other chief beneficiaries of the ruling will be the pharmaceutical industries of France, Switzerland and Germany.

Core of Problem Explained

The difficulties which the pharmaceutical manufacturers have been experiencing in Italy date from immediately after World War II when the patent authorities of Italy ruled that the Italian patent law grants no patent rights either to owners or producers of pharmaceuticals. While the law does not prohibit the issuance of such patents, neither does it provide for such patents, and the authorities ruled that since the law was silent on this point, such patents in this field should not be issued as a matter of policy.

Although some countries, not including the United States, refuse to issue patents on drugs themselves, all countries with the exception of Italy which have any pharmaceutical industry, allow the patenting of the process of drug manufacture. The action of the Italian appeals commission will conform Italian policy to that of the other countries.

State department officials and drug interests in this country expect that the decision will be followed up by legislation in the Italian parliament clarifying the law so that there will be no occasion for the problem to arise again. Also it is expected that the new law will settle the question of damage suits for past infringements of foreign patents by Italian pharmaceutical manufacturers.

The views of the United States drug producers on what should and should not be contained in the new law have been made known to the State department and transmitted to Italy by the department for

—Continued on page 67

Gamma Globulin Allotment Program Dropped by Gov't

Termination of the government's gamma globulin distribution program at the end of the current calendar year was announced last week by the Office of Defense Mobilization.

ODM Director Arthur S. Fleming said that for the balance of this year comitments which have been made to the state territorial departments of health will be fulfilled as required for use in measles, infectious hepatitis and poliomyelitis from the stocks of gamma globulin provided for this purpose by the National Foundation for Infantile Paralysis and the American National Red Cross.

The decision to discontinue distribution direction was made on the basis of a review by the ODM health resources advisory committee and its subcommittee on blood with respect to the current status of gamma globulin supplies and requirements as indicated by requests from the states. The committee found that an increase in supply has taken place since the program started two years ago to a point where all foreseeable demands can be met.

Shell Official in ODM Post

William S. Floyd was appointed assistant director for materials of the Office of Defense Mobilization last week. He is on loan from Shell Oil Company, New York, and succeeds Elmer H. Weaver, who is returning to Union Oil Company of California. Mr. Floyd will be responsible in ODM for determining the quantity of materials required to meet the nation's defense and stockpile needs as well as for the development of material expansion and procurement programs for mobilization.

Synthetic Organics Higher Overall

Combined production of all synthetic organic chemicals and their raw materials in 1953 amounted to 60,759,000,000 pounds, 15.5 percent more than the output of 52,618,000,000 pounds in 1952, the Tariff Commission has reported. These figures represent totals for raw materials, semi-finished, and finished products and necessarily involve substantial duplication, the commission said.

Output of tar and tar crudes, together with crudes from petroleum and natural gas, totaled 31,630,000,000 pounds in 1953 compared with the 26,499,000,000 pounds reported for 1952. Combined production of cyclic intermediates and finished synthetic organic chemicals in 1953, a total which also involves much duplication, was 29,129,000,000 pounds—an increase of 11.5 percent from the 26,119,000,000 pounds produced in 1952. Sales of these chemicals in 1953 totaled 15,637,000,000 pounds, valued at $4,030,000,000—an increase of 8.7 percent in quantity and 6.5 percent in value compared with 1952.

Production of Tars in 1953

Combined production of coaltar, water-gas tar and oil—gas tar in 1953 amounted to 901,000,000 gallons compared with 793,000,000 gallons in 1952. Production of the principal tar crudes—including identical products derived from petroleum—increased in 1953 compared with 1952, except for the production of napthalene. Output of benzol in 1953 was 273,000,000 gallons—some of which was distilled from imported raw materials. Comparable production in 1952 was 252,000,000 gallons.

Output of toluol in 1953 increased to 156,000,000 gallons from 105,000,000 gallons produced in 1952. Production of xylol in 1953 amounted to 113,000,000 gallons, compared with 72,000,000 gallons in 1952, and the output of crude naphthalene in 1953 was 276,000,000 gallons, or a decline of 14.5 percent from the output in 1952. In 1953 the total output of crude products from petroleum and natural gas (crude petrochemicals) totaled 11,147,000,000 pounds—an increase of 41.7 percent from the 7,867,000,000 pounds reported for 1952.

Cyclic Intermediates

The output of cyclic intermediates in 1953 was 4,699,000,000 pounds, of which 40 percent was sold and the rest consumed by producing companies. The output of cyclic intermediates in 1952 was 4,171,000,000 pounds. Production of finished cyclic products in 1953 totaled

—Continued on page 74

Industry Health Parley Is Planned Next Month

Potential industrial health hazards, as well as the major health problems now facing manufacturers, will be taken up at the nineteenth annual meeting of the Industrial Hygiene Foundation to be held November 17 and 18 at Mellon Institute, Pittsburgh, Pa.

Some 800 leaders in industry and science will participate in medical, engineering, chemical-toxicological, legal and joint medical-legal conferences on the first day and in the main meeting, designed particularly for management, on the eighteenth. They will represent the 360 member companies of the foundation.

On the program for the main day will be Clifford F. Hood, president of the United States Steel Corporation, Pittsburgh, who will discuss management aspects of industrial health. Dr. Norbert J. Roberts, medical director of the Pennsylvania Railroad, will talk on horizons of industrial medical services. Val Peterson, head of the Federal Civil Defense Administration and former Governor of Nebraska, will present a practical approach to the civil defense problem.

Rehabilitation to Be Explored

Dr. Donald A. Covalt, associate director of the Institute of Physical Medicine and Rehabilitation, New York University-Bellevue Medical Center, will explore the subject of rehabilitation. Dr. C. Stewart Nash of the University of Rochester, will give a medical evaluation of noise. Speaking on health insurance programs in industry will be A. L. Kirkpatrick, insurance department manager for the Chamber of Commerce of the United States. The significance of industrial wastes will be discussed by Dr. Richard D. Hoak of Mellon Institute, who is an expert in this field.

At the medical conference, industrial physicians will look into the health problems of tomorrow. Included on the program are papers on hazards of radioactive materials, re-evaluation of the physical examination and the problem of overweight in industry. The engineering conference will bring to the attention of plant engineers new developments and ideas on engineering measures that may have effects on the working environment. Papers will be presented on physicochemical dust suppression in final products; the role of oxidation catalysts in air pollution control; outdoor ventilation for particular indus-

—Continued on page 75

Hercules Powder Co. Elects Three to Board of Directors

Hercules Powder Company, Wilmington, Del., has added three new members to its board of directors. The new members are L. W. Babcock, director of personnel for the company; John E. Goodman, treasurer, and Ernest S. Wilson, director of engineering.

Mr. Babcock has been director of personnel since 1945. He joined the company as a chemist in 1917 and later became acid supervisor of, first, the company's Carthage, Mo., plant, and then the Emporium, Pa., plant. He was appointed associate director of the company's Kenvil, N. J., experiment station in 1928. In 1940 he transferred to the Wilmington office of the explosives department as assistant director of operations.

Mr. Goodman has been treasurer of the company since the beginning of the year. He had been assistant treasurer since 1951 and, prior to that, an assistant controller. His career with Hercules dates from 1936. Mr. Wilson became director of engineering in 1947. He joined the company in 1923 as an engineer and was appointed general superintendent of plants operated by the company's paper makers' chemical department in 1937, and was named assistant chief engineer in 1939.

SCI Medal to Be Presented To Volwiler Columbus Day

Dr. Ernest H. Volweiler, president of Abbott Laboratories, North Chicago, Ill., and chairman of the board of directors of the American Chemical Society, will receive the chemical industry medal of the American section of the Society of Chemical Industry at a meeting of the section to be held at the Palmer House, Chicago, on Tuesday evening, October 12. The meeting will follow a dinner in the medallist's honor, and will be held in connection with the eighth national chemical exposition at the Chicago Coliseum, October 12 to 15. Dr. Volwiler is honored for his important contributions to the development and manufacture of organic chemical products valuable in medicine. His medal address will be "Man's Future in a Chemical World."

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'Tetracyn' Marketing Now Is Handled by Pfizer Labs

The broad spectrum antibiotic, "Tetracyn," brand of tetracycline, will now be marketed by Pfizer Laboratories, a division of Chas. Pfizer & Co., Brooklyn, N.Y., it has been announced by T. J. Winn, Pfizer vice-president. "Tetracyn" was formerly marketed by the J. B. Roerig division of Pfizer. The product shift will enable both Pfizer and Roerig representatives to provide more efficient specialized service to customers in the future, it was reported.

Mr. Winn pointed out that the old policy, under which "Tetracyn" and "Terramycin" were distributed separately by the two divisions, has been established to insure adequate presentation for both products. "In our laboratories," said Mr. Winn, "some important new ethical vitamin products are in the final stages of research development. By shifting the sale of "Tetracyn" to Pfizer Laboratories, Roerig personnel will be able to concentrate on their special field of nutritional and dietary supplements.

Nickel Concentrate Sale By Sherritt Gordon Told

Under arrangements made with the General Services Administration, Sherritt Gordon Mines, Ltd., Toronto, has entered into a contract for the sale of a limited tonnage of nickel concentrate to International Nickel Company of Canada, Ltd. The concentrate will be produced at Lynn Lake in addition to the concentrate required to keep Sherritt Gordon's Fort Saskatchewan plant operating at capacity. The contract calls for the delivery of a minimum tonnage of concentrate with a total nickel content of 5,232,500 pounds from September to April.

Lipscomb to Head Williams

Charles T. Lipscomb, jr., has resigned as president of the Pepsodent Division of Lever Brothers Company, New York, to become president and a director of the J. B. Williams Company, Glastonbury, Conn. Mr. Lipscomb, who will take over his post October 15, has been chief executive officer of Pepsodent for the past four years.

Ammonia Output Hiked By Mississippi Chemical

Three expansion projects—one completed and two under way—will increase the ammonia production capacity of the Mississippi Chemical Corporation's plant in Yazoo City, Miss., from 120 tons to a total of 290 tons per day. All of the increased output will be used as fertilizer. A part of it is to be distributed as anhydrous ammonia, and a part is to be converted to ammonium nitrate.

The Girdler Company, Louisville, Ky., a division of the National Cylinder Gas Company, is performing the design, engineering and construction services for additional synthesis gas generating and purification facilities. Girdler also engineered and built the original plant, which went on stream in 1951. In the original synthesis gas plant, 120 tons per day of ammonia were produced by the catalytic steam reforming of natural gas.

Furfural Plant in Dominican Republic Nearing Completion

A $6,500,000 chemical plant being constructed in the Dominican Republic by South Porto Rico Sugar Company is nearing completion and should be in operation early in 1955, William T. Hennessy, chairman of the company, said last week after returning from an inspection trip to the project. The new plant will produce furfural from bagasse, the shredded stalk that remains after the sugar has been squeezed out of sugar cane.

Refrigerant Cut by duPont

The second reduction within a year on the price of "Freon 22" monochlorodifluoromethane, an industrial refrigerant and propellant, was announced last week by E. I. duPont de Nemours & Co., Wilmington, Del. The new price is 51/10c. per pound below the last price adjustment made in September, 1953. DuPont said that the new price cut was possible by more efficient operation and increasing volume. A new "Freon 22" unit went into operation at Deepwater Point, N. J., while another is currently under construction at Louisville, Ky.

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Price Index Moves Up

The overall OPD price index reversed the downward trend of recent weeks and moved up 0.06 point to stand at 105.70. Leading the upward movement was the oils, fats and waxes section. Castor beans, cottonseed meal, tallow and grease were firmer, as were oleo and peanut oils. Cash lard dropped, as did lauric acid and cocoa butter. Corn, cottonseed and soybean oils also declined. Domestic steamed bone meal moved up in the agricultural chemicals section. Hoof meal and sewage sludge were also firmer, while tankage prices eased. There were no price changes in textile and leather chemicals.

Mercury prices continued to advance. Other changes in the heavy chemicals market included increases for sodium metasilicate anhydrous, pentahydrate, nitrate and sesquisilicate hydrated. There were no reductions in this group. Firmer prices were effected for butane and propane in the petroleum derivatives section, due to increasing call for heating requirements. No. 2 fuel oil and kerosene advanced at the New York harbor and at other points along the eastern seaboard.

Argentine casein prices continued to weaken. The protective coatings section recorded advances for copal Manila gum and for metallic lead paste. Essential oils moving up were:—bay, bergamot, caraway, eucalyptus, pennyroyal and peppermint. Reductions were noted for cajeput, citronella, coriander and juniper oils. Anise seed, Batavia cassia, African ginger, mustard seed and fennel seed advanced. Celery and coriander seeds declined.

Prices Advanced

Anise seed, Mexican, 1c. per lb. (61).
Syrian, 1c. per lb.
Bone meal, dom., steamed, $2 per ton (51).
Butane, indust., tanks, ¼c. per gal. (47).
Cassia, Batavia, cuttings, ½c. per lb. (61).
shortstick, cracked, ½c. per lb.
Castor beans, $10 per ton (68).
Cottonseed meal, $1 per ton (68).
Fennel seed, ½c. per lb. (61).
Ginger, African, 1c. per lb. (61).
Grease, choice, white, not all hog, ¼c. per lb. (68).
Gum, copal, Manila, MA, soft, 1½c. per lb. (64).
Hoof meal, 25c. per unit of ammonia (51).
Lead, metallic paste, ½c. per lb. (64).
White, basic carbonate, 1c. per lb.
basic silicate, ½c. per lb.
Mercury, $10 per flask (37).
Mustard seed, Danish, ½c. per lb. (61).
Oil, bay, NF, 10c. per lb. (61).
Bergamot, Italian, nat., 15c. per lb. (61).
Caraway, NF, 25c. per lb. (61).
Eucalyptus, NF, rectified, 70-80%, 7c. per lb. (61).
80-90%, 10c. per lb. (61).
Pennyroyal, 10c. per lb. (61).
Peppermint, nat., 25c. per lb. (61).
redist., 15c. per lb. (61).
Oleo, 1c. per lb. (68).
Peanut, crude, 1¾c. per lb. (68).
refd., 1½c. per lb.
Oleo stearine, ½c. per lb. (68).
Propane, indust., tanks, ½c. per gal. (47).
Sewage sludge, 20c. per unit of ammonia (51).
Sodium metasilicate, anhyd., 25c. per 100 lbs. (37).
pentahydrate, 10c. per 100 lbs. (37).
Nitrite, ¼c. per lb. (37).
Sesquisilicate hydrated, 10c. per 100 lbs. (37).
Tallow, edible, ¾c. per lb. (68).
extra, ¼c. per lb.
fancy, bleachable, ¼c. per lb.

Prices Reduced

Acid, lauric, 1c. per lb. (68).
Casein, Argentine, 1c. per lb. (64).
Celery seed, Indian, ½c. per lb. (61).
Cocoa butter, 3c. per lb. (68).
Coriander seed, Roumanian, ½c. per lb. (61).
Lard, cash, ½c. per lb. (68).
Lard, cash, ¼c. per lb. (68).
Oil, birchtar, crude, 25c. per lb. (61).
Cajeput, native, 10c. per lb. (61).
redist., 15c. per lb.
Citronella, Ceylon, 10c. per lb. (61).
Java, 15c. per lb.
type, 15c. per lb.
Coriander, 20c. per lb. (1).
Corn, crude, ¼c. per lb. (68).
refd., ¼c. per lb.
Cottonseed, crude, ¼c. to ¼c. per lb. (68).
refd., ¼c. per lb.
Juniper berry, NF, 5c. per lb. (61).
Soybean, crude, ½c. per lb. (68).
refd., ½c. per lb.
Tankage, 25c. per unit of ammonia (51).

OPD Price Index

THE OIL, PAINT AND DRUG REPORTER'S relative record of prices of chemicals and related materials is currently as follows:—

(100—1949 average)

October 1 1954	September 24 1954	October 2 1953
105.70	105.64	105.58

Carbide Offers Sorbic Acid

Carbide & Carbon Chemicals Company, a division of Union Carbide & Carbon Corporation, New York, has arranged for a non-exclusive license under the Best Foods, Inc., patent covering the use of sorbic acid for control of mold growth. This permits Carbide to grant sub-licenses to its sorbic acid customers under the Best Foods patent. Carbide is offering sorbic acid at $2.45 per pound, which includes royalties to the patent owner.

J. T. Baker Planning Lab

J. T. Baker Chemical Company, Phillipsburg, N.J., has announced that construction will be started in the near future on a new research laboratory building, to be located adjacent to Baker's main plant in Phillipsburg. Baker is currently celebrating its fiftieth anniversary as a producer of high-purity chemicals.

Magnesium Ass'n Sets Agenda for Convention

The Magnesium Association has announced the program for its tenth annual meeting, which will be held in the Chase hotel, St. Louis, Mo., October 15 through 17 and will be highlighted by an address by Dr. Arthur Compton, Nobel prize winner and chancellor emeritus of Washington University, St. Louis.

On the opening day there will be a session on "Magnesium Castings Up to Date," with Stewart E. Bohn, executive vice-president of Howard Foundry Company, acting as chairman. Edward W. Moir, pattern shop superintendent for Howard Foundry, will discuss "Designing For Magnesium Castings," and F. C. Bennett, of the metallurgical laboratories of Dow Chemical Company, will speak on "Experience and Experiment in Hot Chamber Die Casting of Magnesium." This will be followed by a luncheon at which Dr. Compton will speak on "Goals for a Changing World."

'Magnesium in Use'

A session on "Magnesium in Use" will have H. G. Warrington, technical director of Dominion Magnesium, Ltd., as chairman. The following papers will be presented:—"A Portable Nest for Whirlybirds," by Bert E. Lee, of Magnesium Products of Milwaukee; "Sacrificial Anodes at Work," by T. R. B. Watson, of Corrosion Service, Ltd., and "A Service Report on Magnesium Aircraft Flooring," by Carl Mortenson, of Dow Chemical Company.

"Progress in Processes" will be the topic of a November 16 session. C. Ridgeley Kemp, vice-president in charge of research and development for Magnesium Corporation of America, will serve as chairman. The following papers will be presented:—"Recent Progress in Consumable Arc Welding of Magnesium Alloys," by Paul Klain, of Dow Chemical Company; "Technics Which Made Possible Commercial-scale Electroplating of Magnesium," by Dennis J. Goddeyne, of Goddeyne Manufacturing Company, and "The HAE Record Brought Up to Date," by Pete Zylstra, of Brooks & Perkins, Inc.

Frank Nichols, president of Nichols Wire & Aluminum Company, will speak at a luncheon on "Selling A Product Buyers Think They Don't Want." During the afternoon there will be a session on "Magnesium Tomorrow," with William D. Danks, chief metallurgist of Howard Foundry Company, serving as chairman. A. J. Bell, chief project engineer at the applied physics laboratory of Johns Hopkins University, will speak on "Magnesium Applications in the Missile Program." The closing day will be devoted to visiting the magnesium rolling mill of Dow Chemical Company at Madison, Ill.

Chlortetracycline Suit Filed Against Bristol by Cyanamid

American Cyanamid Company, New York, announced last week that it has filed a patent infringement suit in the US District Court for the northern district of New York against Bristol Laboratories, Inc., claiming infringement by Bristol of Cyanamid's US patent covering chlortetracycline, sold by Cyanamid's Lederle Laboratories Division under the trade name "Aureomycin."

Cyanamid's complaint, filed September 29 in the office of the clerk of the US District Court at Utica, N. Y., claims that Bristol, which has a plant at Syracuse, N. Y., is making and selling an antibiotic composition (under the trade name "Polycycline") which contains material covered by Cyanamid's patent, and that in making its product Bristol uses processes and methods covered by Cyanamid's patent. The complaint asks for damages and an injunction against future infringement.

In commenting upon the action, Frederic N. Schwartz, Bristol Laboratories president, emphasized that the patent involved in this suit was issued in 1949 and relates solely to "Aureomycin," and flatly denied that Bristol's production of tetracycline involves any infringement of this patent. Terming the action a "fishing expedition," Mr. Schwartz declared, "'Under no circumstances will the pendency of this suit affect Bristol's production and sale of tetracycline, nor the ultimate ownership of the tetracycline patent which is yet to be issued."

Freeport Elects Director

Benno C. Schmidt, partner in the firm of J. H. Whitney & Co., has been elected a member of the board of directors of Freeport Sulphur Company, New York, Mr. Schmidt is director and chairman of the executive committee of the Caribbean Refining Company.

Merck Chemical Unit Mgr.

Dr. William H. McLean has been named to the new position of vice-president and general manager of the chemical division of Merck & Co., Rahway, N. J. Dr. McLean has been with Merck since 1948.

Polyvinyl Acetate Installation Under Construction by Devoe

The resins and chemicals divison of the Jones-Dabney Company, a division of Devoe & Raynolds Company, has begun construction on a new installation at Louisville, Ky., for the production of polyvinyl acetate. The facility will house equipment with an annual capacity of 6,000,000 pounds of the emulsion product, but will contain sufficient space for additional units that will make possible the production of at least 30,000,000 pounds a year.

Construction of the new facility marks Jones-Dabney's entry into the field of emulsion type vehicles for the paint industry. Other manufacturing units of the firm's resins and chemicals division are located in Newark, N. J., and Los Angeles. Jones-Dabney is expected to begin production of improved polyvinyl acetate resin emulsions and other types early next spring.

Hercules Names Ladley Its Director of Purchases

Edwin S. Ladley has been appointed director of purchases for Hercules Powder Company, Wilmington, Del. Mr. Ladley will succeed Lawrence J. Finnan, jr., who will retire at the end of the year upon completion of forty years of service. Mr. Finnan will continue in an advisory capacity with Mr. Ladley until December 31.

Mr. Ladley became assistant director of purchases in 1951. He joined Hercules in 1942 as a clerk in the secretary's office at the Hercules' home office in Wilmington. Later he was transferred to the purchasing department where he handled priorities details. In 1944 he was named a buyer in the department.

Antibiotic Sale Restrictions Being Relaxed in New York

The New York City Board of Health has approved in principle an amendment to the sanitary code which will permit over-the-counter sale of certain antibiotic preparations.

This change will eliminate the conflict between New York City health laws and federal regulations. The New York rules at present restrict all antibiotic preparations to prescription sale, while federal regulations permit sixteen antibiotics, labeled with directions, to be sold over the counter.

Because of the confusion and unwarranted hardship upon drug makers, who were required to maintain two separate sets of labels, the industry has been urging the New York City Board of Health to change its regulations for over a year and a half. Last week the industry was informed by Jerome Trichter, deputy commissioner of the New York City Board of Health, that the amendment to the sanitary code is now being prepared and will come up for adoption by the board at its October 29 meeting.

Action for this change was initiated by the Drug, Chemical and Allied Trades section of the New York Board of Trade, which was joined by the American Drug Manufacturers Association, American Pharmaceutical Manufacturers Association, New York State Pharmaceutical Association, Pharmaceutical Council of New York and the Proprietary Association.

Bethlehem Consolidation With Youngstown Barred

The proposed merger between Bethlehem Steel Company, Bethlehem, Pa., and Youngstown Sheet & Tube Company, Youngstown, Ohio, was disapproved last week by the Department of Justice.

Attorney General Herbert Brownell stated, in connection with the department's decision, that a merger does not necessarily have to result in a Sherman Act monopoly to be illegal. The Clayton act, as amended in 1950, he noted, outlaws acquisition where the effect would be to substantially lessen competition.

He pointed out that Bethlehem and Youngstown rank second and sixth among fully integrated steel companies and that there is a substantial amount of competition between Bethlehem and Youngstown in a number of products.

Atomic Battery Developed Utilizing Radioactive Heat

Scientists at Mound Laboratory have developed an atomic battery which uses the heat from radioactivity to produce electrical energy. The announcement was made in Miamisburg, Ohio, last week, by Dr. J. J. Burbage, director of Mound Laboratory, operated by Monsanto Chemical Company for the Atomic Energy Commission. The new battery makes use of a thermopile which converts the heat from radioactive decay into electricity.

Dyes Import Data Must Now Be More Detailed

The Bureau of Customs last week modified its regulations covering information that must be supplied on invoices of coaltar dye imports. The revised rules, which become effective ninety days after their publication in the weekly Treasury *Decisions*, are aimed at giving customs officers more definitive date to enable them to properly assess duties on such products.

At the same time, announcement was made that a central reference file of samples of coaltar products produced by domestic manufacturers, with acccompanying technical data, is to be established so that customs officers can compare each imported coaltar product with any comparable domestic product to ascertain its competitive tariff status. Heretofore, samples submitted informally by certain domestic manufacturers were not accompanied by adequate technical data for classification purposes and this resulted in delay and difficulty in comparing them with imported products.

The chief chemist, Customs Laboratory, New York City, has been authorized to receive the samples from the domestic manufacturers together with certain specific information which would fully describe the product. The information is the same as that required to be filed on the invoice by the importers of the coaltar products.

Basis of New Rules Explained

The modified rules grow out of the proposed changes in the regulations announced by the Customs bureau last March. Considerable criticism was made against the changes proposed at that time because of a requirement that the invoice would have to show the scientific or common name of the intermediate used in the final stages of production of the finished product. In some cases this would force disclosure of trade secrets and manufacturing processes.

The bureau agreed to the elimination of this requirement but called for more complete information on the chemical classification than was proposed. It was felt that this additional information would form an adequate substitute for the scientific name of the intermediates.

The information called for by the new regulation must be supplied for any product covered by the regulation. However, for second and successive shipments to the same port of identical merchandise of the same name and strength, the data need not be supplied. A reference to the first shipment is sufficient.

Data required to be filed in connection

—*Continued on page 74*

Asbestos Facility in Quebec Unveiled by Johns-Manville

What is reputed to be the world's largest asbestos mill was unveiled last week by Johns-Manville Corporation at Asbestos, Quebec. The facility upon its completion in early 1956 will have an annual capacity of more than 625,000 tons of asbestos fiber—more than a third of the free world's production.

The fourteen-story unit dedicated last week represents only half of the company's mill building at the site. Ultimately, the mill building will have twenty-two and a half acres of floor space and will replace several older units nearby which are nearing obsolescence. The new mill rims what is claimed to be the world's largest operating absbestos mine, Johns-Manville's Jeffrey mine.

The Jeffrey property, which started operations seventy-three years ago, is estimated to have enough asbestos ore reserves to last more than a hundred years at the present production rate.

Cobalt Operation Initiated By Int'l Nickel in Ontario

International Nickel Company of Canada, Ltd., as a result of improvements in refining technics, has initiated production of electrolytic cobalt at its Port Colborne, Ontario, refinery. This marks the first commercial production of electrolytic cobalt in Canada, the company pointed out. Heretofore Inco's entire cobalt output has been marketed as oxides and salts produced at its Clydach, Wales, refinery.

Cobalt is one of thirteen elements recovered from the company's Sudbury district, Ontario, ores. Nickel, of course, is the principal product. The others are copper, platinum, palladium, ruthenium, iridium, rhodium, gold, silver, selenium and tellurium. In addition, Inco furnishes high quality smelter gas for sulfuric acid production.

Hanford Is DCAT's New Chairman

Claude A. Hanford, president of Pharmaco, Inc., was elected the fifty-eighth chairman of the Drug, Chemical and Allied Trades section of the New York Board of Trade at its sixty-fourth annual convention held recently at Pocono Manor, Pa.

Other officers elected were vice-chairman, Sydney N. Stokes, sales manager, northwestern division, Merck & Co.; treasurer, David Hayden, eastern sales manager, R. P. Scherer Corporation; counsel, James G. Flanagan, vice-president, S. B. Penick & Co., and secretary, Helen L. Booth.

The retiring DCAT chairman, Stanley I. Clark, vice-president of Sterling Drug, Inc., was elected section representative to the board of directors of the New York Board of Trade. Hugh S. Crosson, retiring treasurer, was elected an honorary member of the executive committee in recognition of his thirteen years of service to the section. Mr. Hanford has been active in drug circles and association work for the past twenty-five years.

Elected as members of the executive committee of the section (excluding officers) were:—Frank F. Black, Chas. Pfizer & Co.; Francis C. Brown, Schering Corporation; Ralph A. Clark, J. T. Baker Chemical Company; Griffin Crafts, J. W. Wilson Glass Company; Harold F. Cummings, Vitamerican Oil Corporation; James Day, Dow Chemical Company; W. T. Halsted, Thos. Leeming & Co.; William W. Huisking, Chas. L. Huisking & Co.

Louis E. Kalty, Progress Drug Company; George H. McGlynn, Magnus, Mabee & Reynard, Inc.; W. Boyd O'Conner, Ayerst Laboratories Division, American Home Products Corporation; William J. Schieffelin, 3rd, Schieffelin & Co.; F. M. Schwemmer, Ruthrauff & Ryan, Inc.; Fred G. Singer, E. I. duPont de Nemours & Co.; J. A. Singmaster, jr., Monsanto Chemical Company, and Stephen F. Urban, E. R. Squibb & Sons Division, Olin Mathieson Chemical Corporation.

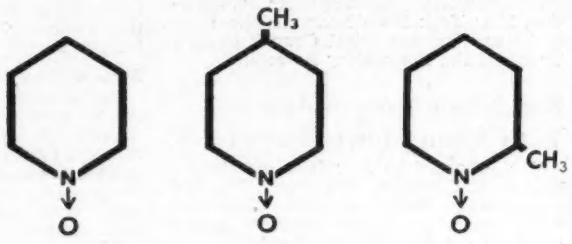
Claude A. Hanford

Reilly reports TO INDUSTRY

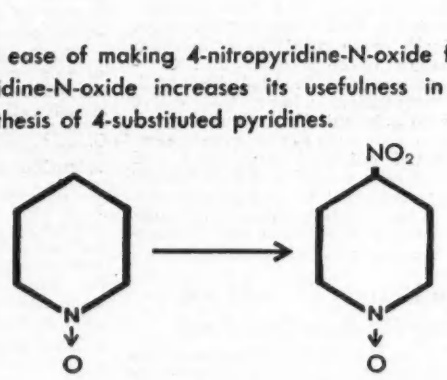
From the Research and Development Division, Reilly Tar & Chemical Corporation

Merchants Bank Bldg., Indianapolis 4, Ind.

Your requests for 2-picoline-N-oxide, in addition to your orders for pyridine-N-oxide and 4-picoline-N-oxide, prompted us! Now, we are offering three -N-oxides:

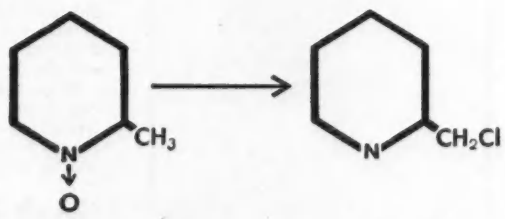


The ease of making 4-nitropyridine-N-oxide from pyridine-N-oxide increases its usefulness in the synthesis of 4-substituted pyridines.

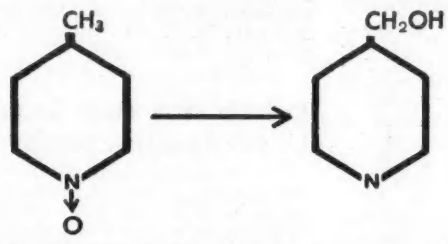


The nitro group readily undergoes replacement reactions to give, for example, 4-chloro-, 4-hydroxy-, 4-methoxy-, 4-bromo-, and 2,4-dichloropyridine.

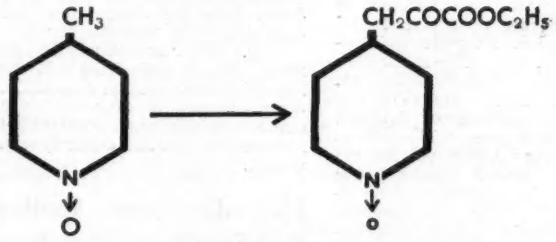
To the pyridine researcher the high yield of 2-chloromethylpyridine from 2-picoline-N-oxide is intriguing.



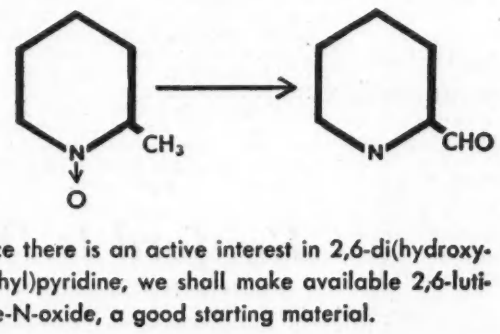
4-Picoline-N-oxide is the ideal starting material for making the hertofore elusive 4-pyridylmethanol.



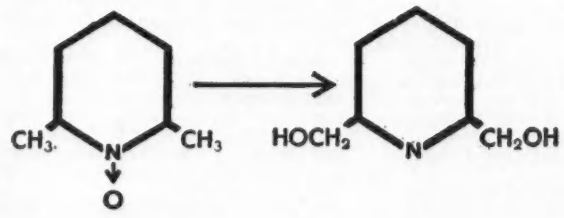
2-Picoline-N-oxide and 4-picoline-N-oxide are quite responsive to condensation reactions. For example, with ethyl oxalate they condense to give a good yield of the corresponding pyruvate.



The conversion of 2-picoline-N-oxide to 2-pyridylaldehyde is undoubtedly the best available method for the synthesis of this pyridine.



Since there is an active interest in 2,6-di(hydroxymethyl)pyridine, we shall make available 2,6-lutidine-N-oxide, a good starting material.



If you have an interest in still a different Pyridine-N-oxide, we can undoubtedly make it available in short order.

The Reilly Researchers

Reilly CHEMICALS

Heterochemicals • Coal Tar Chemicals • Acetylene Derivatives

Association Meetings

This Week

American Drug Manufacturers' Association, research and development section, Claridge hotel, Atlantic City, N. J., October 7-9.

Commercial Chemical Development Association, Bedford Springs hotel, Bedford, Pa., October 7-8.

Air Pollution Control Association, semi-annual technical conference, Biltmore hotel, Los Angeles, November 4-6.

American Chemical Society, Chicago section, national chemical exposition, Chicago Coliseum, October 12-15; Dallas-Fort Worth, Tex., section, southwest regional meeting, Fort Worth, December 2-4.

American Council of Independent Laboratories, annual meeting, Roosevelt hotel, New Orleans, La., November 3-6.

American Institute of Chemical Engineers, annual meeting, Statler hotel, New York, December 12-15.

American Oil Chemists' Society, fall meeting, Radisson hotel, Minneapolis, Minn., October 11-13.

American Petroleum Institute, Conrad Hilton hotel and Palmer House, Chicago, November 8-11.

American Pharmaceutical Manufacturers' Association, combined midyear and eastern section meeting, Waldorf-Astoria hotel, New York, December 6-8.

Association of American Feed Control Officials, annual meeting, Shoreham hotel, Washington, D. C., October 13-14.

Association of American Fertilizer Control Officials, annual meeting, Shoreham hotel, Washington, D. C., October 15.

Association of Consulting Chemists and Chemical Engineers, annual meeting, symposium, Belmont Plaza hotel, New York, October 26.

Association of Economic Poison Control Officials, annual meeting, Shoreham hotel, Washington, D. C., October 16.

Association of Official Agricultural Chemists, annual meeting, Shoreham hotel, Washington, D. C., October 11-13.

Boston Conference on Distribution, Statler hotel, Boston, October 18-19.

Chemical and Plastic Industries Equipment Salon, Parc des Expositions, Paris, France, December 2-12.

Chemical Market Research Association, Exposition Marketing Symposium, Chicago Coliseum, Chicago; October 12; Book-Cadillac hotel, Detroit, Mich., November 17.

Chemical Specialties Manufacturers Association, annual meeting, New Yorker hotel, New York, December 6-8.

Combined Pharmaceutical Contact Committee of ADMA and APMA, fall meeting, Sheraton-Park hotel, Washington, D. C., November 9-10.

Federation of Paint and Varnish Production Clubs, annual meeting, Palmer House, Chicago, November 18-20.

Industrial Hygiene Foundation, Mellon Institute, Pittsburgh, Pa., November 17-18.

Magnesium Association, annual meeting, Chase hotel, St. Louis, Mo., November 15-17.

Manufacturing Chemists Association semi-annual meeting and winter conference, Statler hotel, New York, November 23.

National Association of Retail Druggists, annual convention, Houston, Tex., October 10-14.

National Chemical Exposition, Chicago Coliseum, Chicago, October 12-15.

National Fertilizer Association, southern convention, Hollywood Beach hotel, Hollywood, Fla., November 10-12.

National Foreign Trade Council, annual convention, Waldorf-Astoria hotel, New York, November 15-17.

National Industrial Conference Board, annual conference on atomic energy, Commodore hotel, N. Y., October 13-15.

National Paint Salesmen's Association, annual meeting, Willard hotel, Washington, D. C., October 21-23.

National Paint, Varnish and Lacquer Association, annual meeting, Palmer House, Chicago, November 15-17.

National Pest Control Association, annual meeting, Di Lido hotel, Miami Beach, Fla., October 18-21.

National Safety Congress and Exposition, chemical section, Chicago, October 18-22.

National Wholesale Druggists Association, annual meeting, Hollywood Beach hotel, Hollywood, Fla., November 13-18.

Packaging Institute, annual forum, Roosevelt hotel, New York, October 25-27.

Parenteral Drug Association, annual meeting, Barbizon-Plaza hotel, New York, October 20-22.

Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy, William Penn hotel, Pittsburgh, Pa., February 28-March 4, 1955.

Plant Maintenance and Engineering Show, International Amphitheatre, Chicago, January 24-27.

Plastics in Building Conference, sponsored by the Society of the Plastics Industry, the Manufacturing Chemists' Association, and the Building Research Advisory Board, National Academy of Sciences, Washington, D. C., October 27-28.

Salesmen's Association of the American Chemical Industry, third sales clinic, Commodore hotel, New York, October 11.

Society of Chemical Industry, chemical industry medal award dinner, Palmer House, Chicago, October 12.

Synthetic Organic Chemical Manufacturers Association, monthly luncheon meeting, Commodore hotel, New York, October 13.

Davison Sales Manager

David P. Barrett has been named sales manager of the industrial chemicals department, Davison Chemical Company, Baltimore, Md., division of W. R. Grace & Co. Mr. Barrett, who fills the vacancy created by the resignation of Norman E. Hathaway (see page 39 for separate story), joined Davison's industrial chemicals department in 1946 and had been assistant sales manager of the department since 1952.

Air Pollution Problems Cited At Research Ass'n Conference

Dr. Lauren B. Hitchcock, president and managing director of the Southern California Air Pollution Foundation, told the recent annual conference of the Western Governmental Research Association that cities may be doomed unless government and science and the public are willing to make a real, all-out effort to overcome certain serious defects, one of which is air pollution. Dr. Hitchcock's subject was "The Scientific Approach to Control of Urban Air Pollution."

"Expanding industry and expanding populations swell the air pollution at a rate which so far has outstripped the reduction of air pollution, substantial as that is," Dr. Hitchcock said. "Air pollution research is still in its pioneering stages, and we, in common with others today, are helping to develop a roster of scientific personnel expert in this field. The present number is extremely small."

Dr. Hitchcock said that the Los Angeles County Air Pollution Control District, as a result of pioneering research, control, and enforcement, reports that 900 tons of contaminants no longer reach the Los Angeles "reaction chamber" each day.

Wax Importers Association Chooses Arguesco President

Luis M. Argueso, sr., of M. Argueso & Co., has been elected president of the American Wax Importers and Refiners Association. Other officers elected at the recent annual election are:—Vice-president, Charles Bullock, of Strahl & Pitsch, Inc.; secretary, John J. Garvey, of M. Argueso & Co., treasurer, Edward Hess, of F. W. Steadman Company, and directors, Charles Christman, of Smith & Nichols, Inc.; Alfred Drucklieb, of Strohmeyer & Arpe Company; R. E. Sievert, of Frank B. Ross Company; Mr. Bullock and Mr. Argueso.

Textile Technologists Hear Silicone Resins Talk Oct. 6

The American Association for Textile Technology has scheduled a dinner meeting October 6 at the Builders' Club, 2 Park avenue, New York, at 6:30 p. m. Fred Fortress, section head of dyeing and finishing research at Celanese Corporation of America, New York, will speak on "Application of the Silicone Resins to Textile Fabrics." The discussion leader will be George L. Baxter, sales manager of Bradford Dyeing Association.

Drug Unit to Hear LaBlanc

Charles W. LaBlanc, of the Research Institute, will be the speaker at the next meeting of the Drug, Chemical and Allied Trades committee of the Young Men's Board of Trade, New York. The meeting will be held October 6 in the boardroom of Monsanto Chemical Company, 445 Park avenue, at 6 p.m. Mr. LeBlanc will speak on "Human Relations in Selling."

A. A. Wasserscheid, Retired Mallinckrodt V.P., Dies at 83

August A. Wasserscheid, vice-president of Mallinckrodt Chemical Works, St. Louis, Mo., until his retirement in 1950, died September 27 at his home in Garden City, L. I. He was eighty-three years of age.

Born in New York City, Mr. Wasserscheid was a graduate of the City College of New York and received a degree from the College of Pharmacy, Columbia University, in 1892. He started with Mallinckrodt in New York the following year. Mr.

Wasserscheid was named general manager of the firm's eastern division in 1913 and was subsequently made a vice-president, which post he held until his retirement.

A past president of the Drug & Chemical Club of the City of New York, he actively participated in the affairs of a number of drug and chemical industry organizations, including the American Drug Manufacturers Association, the American Pharmaceutical Association, the American Pharmaceutical Manufacturers Association, the Drug, Chemical and Allied Trades section of the New York Board of Trade, Federal Wholesale Druggists Association.

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AIChE South Texas Section Sets Oct. 22 Parley Agenda

The south Texas section of the American Institute of Chemical Engineers has announced the program for the ninth annual technical meeting, which will be held at the Galvez hotel, Galveston, October 22.

The following papers will be presented at the first session:—"Role of Fuel in Combustion Chamber Deposits and Engine Performance," by Paul H. Richard, of E. I. duPont de Nemours & Co., Wilmington, Del.; "Role of Lubricant in Combustion Chamber Deposits and Engine Performance," by C. A. Hall, of Ethyl Corporation in Detroit, Mich., and "Trend in Engine Progress," by D. F. Caris, of General Motors Corporation, Detroit.

At the second session these papers will be read:—"Statistical Control as Applied to Process Industries," by Joseph Rio, of Dow Chemical Company in Freeport, Tex.; "Economics of Ammonia Manufacture From Several Raw Materials," by Barrett S. Duff, of Flour Corporation, Ltd., Los Angeles; "Equipment for Vapor-Liquid Equilibria Studies—Measurement by the Total Pressure Method," by G. F. Palm and H. William Prengle, jr., of the University of Houston, Houston, Tex., and "The Selection of a Plant Site," by S. P. Smith, of Carbide & Carbon Chemicals

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CMRA to Hold Symposium At Chicago Chemicals Show

The Chemical Market Research Association will hold a symposium on exposition marketing October 12 in conjunction with the national chemical exposition of the Chicago section of the American Chemical Society, to be held in the Chicago Coliseum October 12 through 15.

G. A. Harrington, of Indoil Chemical Company, Chicago, will open the session. Frank F. McKinney, of Quaker Oats Company, Chicago, will speak on "Principles of Industrial Product Promotion." An exhibit on showcase promotion will be presented by H. E. Robinson, director of research for Swift & Co., Chicago, and past chairman of the national exposition. W. A. Lang, creative service manager of Monsanto Chemical Company, St. Louis, Mo., will speak on "Guides for Exhibitors," and "Case Histories" will be presented by E. P. Sutorius, vice-president of Gardner Display Company.

Packagers Will Probe Problems in Chemicals

The Packaging Institute has announced plans for its sixteenth annual forum, several sections of which will be of particular interest to the chemical industry. The meeting will take place October 25 through 27 at the Roosevelt hotel, New York.

On October 26 there will be a drug and pharmaceutical seminar, with Dr. J. C. Bird as chairman. The first topic will be:—"Problems in Export Packaging," with John Cherepow, of Hoffmann-LaRoche, Inc., serving as moderator. The following papers will be presented:—"The Insurance Company"s Viewpoint on Export Shipping Conditions," by John Mount, of Insurance Company of North America; "Preventable Losses in Export Packaging," by Joseph Medernack, of Moore-McCormack Lines, Inc., and "Air Cargo Packaging and Packing," by R. C. Horstmeyer, of Transworld Airlines, etc.

Packaging in Pharmaceutical Field

The second topic will be:—"Package Development in the Pharmaceutical Field," with L. H. Zahn acting as moderator. The following papers will be presented:—"Package Development Phase," by J. E. Marmon, of Eli Lilly & Co.; "Purchasing Phase," by O. C. Ferris, of Schering Corporation, and "Suppliers' Phase," by F. Kiernan, of Kiernan & Hughes Company.

"Aerosols in the Pharmaceutical Industry" will be another topic, with John A. Warren serving as moderator. The following papers are scheduled for presentation:—"Glass Filling," by Dr. F. A. Mina, of Zonite Products Corporation; "Refrigerated Filling," by Lee J. Wallace, of J. P. Salmini Company, and "Pressure Filling," by Grant Hoyt, of Alpha Engineering & Machine Works.

On the same day there will be a seminar on "Production, Economics and Merchandising Aspects of Formed Plastic Packaging," with John J. Keville, jr., assistant general sales manager of the plastics division of Celanese Corporation of America, acting as moderator. On the panel will be T. W. Sharp, of Bakelite Company, a division of Union Carbide & Carbon Corporation; Edward V. Clarke, of Celanese Corporation of America; E. Bowman Stratton, jr., of Auto-Vac Company; Walter Stern, of Raymond Loewy Associates, and C. W. Harper, of Sears, Roebuck & Co.

Costs Cutting to Be Explored

This will be followed by another part of the drug and pharmaceutical seminar. The first section will be on "Reduction of Costs in Pharmaceutical Packaging," with Charles Spannelo, of Schering Corporation, acting as moderator. The following papers will be presented:—"Corrugated Containers," by H. J. Hayes, of Hankins Container Company; "Carton De-

—*Continued on page 50*

Fiber-Fabric Discussions Slated by Polymer Institute

The Institute of Polymer Research has scheduled six conferences on "Fundamental Fiber-Fabric Relationships" at the Polytechnic Institute of Brooklyn, Brooklyn, New York. The conferences will run from November to next April. Chairman of the symposium will be Jack J. Press, a fiber specialist with the Institute of Polymer Research and the navy clothing supply office.

The program consists of the following conferences:—"Intrinsic Fiber Properties," chairman, Dr. W. W. Heckert, E. I. duPont de Nemours & Co., Wilmington, Del., November 13; "Fiber Form Factors," chairman, Dr. Walter J. Hamburger, Fabric Research Laboratories, December 11; "Fiber Interactions," chairman, Dr. John H. Dillon, Textile Research Institute, January 8.

Also, "Blend Engineering," chairman, Carl A. Setterstrom, Carbide & Carbon Chemicals Company, a division of Union Carbide & Carbon Corporation, New York, February 4, "Fiber-Yarn-Fabric Relationships," chairman, Dr. Milton Harris, Harris Research Laboratories, March 5, and "A Challenge to Industry," chairman, J. B. Goldberg, an industry consultant, April 2.

CSMA Moves Headquarters

The Chemical Specialties Manufacturers Association has moved its headquarters into new and larger offices on the tenth floor of the Chemists' Club, 50 East 41st street, New York. The association's new telephone number is MUrray Hill 5-8722. According to H. W. Hamilton, CSMA secretary, the move was made to secure additional and improved space in order to enable the association to more efficiently carry on its activities.

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Theobromine
Theophyllines
Vitamins
Zinc Salts

Research and Production for the Nation's Health

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RAHWAY, NEW JERSEY

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Current Market Quotations

Chemicals and Related Materials

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Unless otherwise indicated, listings are first-hand quotations prevailing, according to information and belief, October 1 on large lots, f.o.b. New York, with the lowest in the left-hand column and the highest in the right-hand column. The listings do not represent bid and asked prices nor a range over the week. Differences between high and low may be accounted for by differences in quantity, quality, locality, or individual suppliers' views.

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A

Acacia (see Gum arabic).

Acenaphthene, below 92.5 C., m.p., dms. works lb. .40 - —
above 92.5 C., m.p., bbls., dms., works lb. .41 - .50

Acetaldehyde, 99%, dms., c.l., frt. equald lb. .1250- .1435
l.c.l. frt. equald lb. .1350- .1535
tanks, frt. equald lb. .1050- .1300

Acetaldol (see Aldol).

Acetanilide, tech., bbls., c.l., dlvd. lb. .29 - —
ton lots lb. .30 - —
smaller lots lb. .30½- —
USP, bbls., 2,000-lb. lots lb. .80 - —
smaller lots lb. .81 - .86

Acetic anhydride, dms., c.l., dlvd. E. lb. .15½- —
l.c.l., dlvd. E lb. .17 - —
tanks, dlvd. E lb. .14 - —

Acetoacetanilide, fib. dms., c.l., dlvd lb. .75 - —
l.c.l., dlvd. lb. .76 - —

Acetoacet-o-chloroanilide, fib., dms., c.l., dlvd lb. 1.27 - —
l.c.l., dlvd. lb. 1.28 - —

Acetoacet-o-toluidide, fib., dms., c.l., dlvd lb. .78 - —
l.c.l. dlvd lb. .79 - —

Acetone, CP, dms., c.l., dlvd. lb. .10 - —
l.c.l., dlvd. lb. .11 - —
tanks, dlvd. lb. .08 - —
Methyl (see M)

Acetonitrile, dms., c.l., works lb. .45 - —
l.c.l., works lb. .47 - —

Acetophenetidine, USP, bbls., works, frt. equald lb. 1.15 - 1.17

Acetophenone cns., dms lb. 1.21 - 1.85
tech., dms., l.c.l., works lb. .75 - —

p-Acetylaminobenzaldehyde thiosemicarbazone, dms, frt. adjusted. lb. 17.50 - 21.00

N-Acetyl-p-aminophenol, dms., frt. adjusted lb. 1.75 - 1.85

Acetyltributyl citrate tech. dms., c.l., works lb. .33½- —
l.c.l., works lb. .34½- .38½
tanks, works lb. .32 - —

Acetyltriethyl citrate, tech., dms., c.l., works lb. .37½- —
l.c.l., works lb. .38½- —
tanks, works lb. .36 - —

Acid, abietic, coml., dms., c.l., works lb. .12 - —
l.c.l., ex whse lb. .1490- —
cryst., dms., c.l., works lb. .06½- —
l.c.l. works lb. .07 - .07½

Acetic, coml., or redist., 28%, bbls. 100 lbs. 4.80 - —
56%, bbls 100 lbs 8.25 - —
70%, bbls 100 lbs. 9.95 - —
80%, bbls 100 lbs. 10.45 - —
glacial, syn., CP, dms., dlvd. 100 lbs. 15.00 - 16.00
tech., dms., c.l., dlvd 100 lbs. 10.50 - 12.00
l.c.l., same basis 100 lbs. 11.00 - 13.00
tanks, dlvd 100 lbs. 10.00 - —
USP cbys., inclusive, dlvd., 100 lbs. 24.00 - 25.00

Acetic anhydride (see Acetic anhydride above).

Acetylsalicylic, USP special, bbls., makers, primary distrib., point of shipt., 1,000-lb. lots lb. .60 - —
standard, fine, cryst., gran., (30-40 mesh) powd., (80 mesh), bbls., 1,000-lb. lots. lb. .53 - —

Freight equald, shipt. identical quantity over standard routes, from N. Y., Phila., Midland, Mich., Chicago and St. Louis.

Adipic, fib. dms., works lb. .37 - .37½

Aminoacetic, NF, bbls., frt. adjusted lb. 1.50 - 1.73

p-Aminobenzoic, tech., dms., works lb. 1.74 - 1.77
USP, dms., 1,000-lb. lots or more, works lb. 2.50 - —
smaller lots, works, same basis lb. 2.53 - 2.60

p-Aminosalicylic, dms., 1,000-lb. lots or more, frt. adjusted lb. 4.00 - —
smaller lots, same basis lb. 4.05 - 4.50

Anthranilic, bbls., frt. equald lb. 1.21 - —

Arsenous, tech., (see Arsenic, white).
USP (see Arsenic trioxide).

Ascorbic USP dms., 25-50 kilo lots. kilo. 16.00 - —
10-kilo lots kilo. 16.35 - —
5-kilo lots kilo. 16.75 - —
bots., 1-kilo lots kilo. 17.00 - —
500-gram lots kilo. 17.50 - —

Battery, cbys. c.l., works, E 100 lbs. 2.33 - —
l.c.l., works, E 100 lbs. 2.63 - 3.45

Benzoic, tech., bbls., dms., 100-lb. lots or more lb. .44 - —
USP, bbls., dms., 100-lb. lots or more lb. .54 - —

Betahydroxynaphthoic (see Acid, b-Oxynaphthoic).

Betaoxynaphthoic (see Acid, b-Oxynaphthoic).

Boric, tech., 99½%, cryst., bgs., c.l., works ton. 124.25 - —
ton lots, ex whse., N. Y. or Chi ton. 172.00 - —
smaller lots, same basis, ton. 177.00 - —
bbls., c.l., works ton. 148.75 - —
ton lots, ex whse., N. Y. or Chi ton. 196.50 - —
smaller lots, same basis, ton. 201.50 - —
gran., bgs., c.l., works ton. 99.25 - —
ton lots, ex whse., N. Y. or Chi ton. 147.00 - —
smaller lots, same basis, ton. 152.00 - —
bbls., c.l., works ton. 123.75 - —
ton lots, ex whse., N. Y. or Chi ton. 171.50 - —
smaller lots, same basis, ton. 176.50 - —
bulk, c.l., works ton. 94.25 - —

Acid, boric, tech., powd., bgs., c.l., works ton. 104.25 - —
ton lots, ex whse., N. Y. or Chi ton. 152.00 - —
smaller lots, same basis, ton. 157.00 - —
bbls., c.l., works ton. 128.75 - —
ton lots, ex whse., N. Y. or Chi ton. 176.50 - —
smaller lots, same basis, ton. 181.50 - —

Boric acid in kegs $45.50 per ton higher than in paper bgs. USP boric acid $25 per ton higher.

Broenners, bbls lb. 1.76 - —

Butyric, 99%, dms., c.l., works, lb. .34 - —
l.c.l., works lb. .34½- —
tankcars, works lb. 32½ - —

Cacodylic, bots lb. 10.50 - 13.00

Camphoric, nat., dms lb. 4.00 - 4.75
syn., dms. lb. 4.00 - 4.75

Capric, dms lb. .25¼- .27

Caprylic, dms lb. .27¾- .29½

Cassella dms., 100% basis, frt., alld lb. 1.44 - 1.75

Castor oil, split, dms lb. .35½- .36

Chicago, bbls., frt. alld lb. 3.21 - —

Chloroacetic, mono-, purified, flake, 99%, dms. lb. .23½- .25½
tech., flake, 96-97%, frt. equald, dms lb. .20 - .21

o-Chlorobenzoic, fib. dms., works lb. 1.13 - —

p-Chlorobenzoic, fib. dms., works lb. 1.59 - 1.69

Chlorosulfonic dms., c.i., frt. equald lb. .0465- —
l.c.l., frt. equald lb. .0515- —
tanks, frt. equald lb. 0415 - —
Acid, chlorosulfonic, in stainless steel dms. ½c. per lb. higher.

Cholic, 100-lb. lots, fib. dms. lb. 6.00 - 6.25

Chromic 99¾%, dms., c.l., works lb. .27½- —
l.c.l., works lb. .28 - .29
NF (see chromium trioxide)

Cinnamic, refd., bots lb. 2.50 - 3.50

Citric, USP, anhyd., gran., fine gran dms., c.l. lb. .28¾- —
10,000-lb. lots, 1 shipt. lb. .29¼- —
smaller lots lb. .29¾- .31¼

hydrous, gran., fine gran., dms., c.l lb. .27 - —
10,000-lb. lots, 1 shipt. lb. .27½- —
smaller lots lb. .28 - .29½

Powdered citric acid ½c. higher.

Acid, Cleve's, mixed, bbls lb. .79 - —
Coconut oil, dist., dms lb. .23¾- .25½
tanks lb. .22 - —
dbl. dist., dms lb. .24½- .26¼
tanks lb. .23¾- —
Corn oil, dist., dms lb. .14¾- .16½
tanks lb. .13 - —
Cottenseed oil, dist., dms lb. .13 - .14¼
tanks lb. .11¼- —

2,3-Cresotic, dms., ton lots, works, lb. .66 - —
smaller lots lb. 1.82 - 2.00

Cresylic, coaltar, dom., 50% 207°C or above, ret dms., c.l., frt. equald gal. .98 - —
l.c.l., same basis gal. 1.03 - —
non-ret., dms., c.l., same basis gal. 1.01 - —
l.c.l. same basis gal. 1.04 - —
tanks, same basis gal. .90 - —
204° to 207°C., ret., dms., c.l., same basis gal. 1.03 - —
l.c.l., same basis gal. 1.08 - —
non-ret., dms., c.l. same basis gal. 1.06 - —
l.c.l., same basis gal. 1.09 - —
tanks, same basis gal. .95 - —
imp. 75% at 215°C. or over, dms. ex whse gal. .75 - .90

petroleum, dom., 195° to 213°C, non-ret. dms., c.l., San Francisco and Los Angeles gal. .71 - —
l.c.l., same basis gal. .73 - .75
tanks, same basis gal. .58 - —

200° C. to 222° C., tanks, Wilmington, Cal. gal. .58 - .63

211° C. to 236° C., non-ret. dms., c.l., San Francisco gal. .63 - —
l.c.l., same basis gal. .65 - .67
tanks, same basis gal. .50 - —

220° C. to 242° C., tanks, Wilmington, Cal. gal. .50 - .53

245° C. to 298° C., tanks, Wilmington, Cal. gal. .46 - —

Crotonic, fib. dms., c.l., 200 lbs. or more, works lb. .44 - —

Cyanoacetic, tech., bbls lb. .90 - 1.25

Dehydrocholic, injection, fib. dms. 100-lb. lots lb. 14.75 - —
oral, fib. dms., 100-lb. lots lb. 10.25 - —

Desoxycholic, fib. dms, 100-lb. lots. lb. 15.00 - —

Dichlorophenoxyacetic (see under 'D' 2,4-D)

Diethylbarbiturie (see Barbital)

Diglycolic, bgs., works lb. .14 - —

Acid, 2-ethyl hexoic, dms., c.i., works lb. .35 - —
l.c.l., works lb. .35½- —
tanks, works lb. .33½- —

F, crude, paste, bbls., works lb. 2.10 - —

Folic, bots, fib. cns kilo-lots or more gram. 1.60 - —

Formic, 85%, cbys., c.l., works lb. .1570- —
l.c.l., works lb. .1620- .1720
90%, cbys., c.l., works lb. .1625- —
l.c.l. works lb. .1675- .1775

Fumaric, tech., bgs., dms lb. .27 - .28

Gallic, NF VII, bbls., 1,000-lb lots lb. 1.80 - —
smaller lots lb. 1.82 - 2.00
technical bbls., 1,000-lb lots lb. 1.58 - —
smaller lots lb. 1.69 - 1.78

Gamma, dry, ground, bbls., frt. alld lb 1.50 - —
paste, bbls., frt. alld lb 1.45 - —

Gentisic, 100-lb. fib. dms lb. 8.50 - —

Gluconic, tech., 50% bots lb. .25 - .35
cbys. lb. .19 - —
dms. lb. .15½- —

l-Glutamic, 99½% fib. dms., 100 lb lots works lb 2.45 2.53
25-lb. lots, works lb. 2.54 - 2.60

Glycerophosphonic, 35%, dms., works lb. 2.25 2.35

Glycolic (see Acid hydroxyacetic).

H, dry, bbls., works, 100% basis, lb. .82 - —
paste, bbls., works, 100% basis, lb. .80 - —

Hydriodic, 1.50 s.g., cbys lb. 2.94 - —
1.70 s.g., cbys lb. 3.23 - —

Hydrobromic, medicinal, 48%, cbys., dlvd E lb .37 - .43

Hydrochloric, anhyd. (see Hydrogen chloride).
18° cbys., c.l., works 100 lbs. 2.50 - —
l.c.l., dlvd Metropolitan area 100 lbs. 2.90 - 3.05
tanks, works, frt. equald ton. 28.00 - —
20° cbys., c.l., works 100 lbs. 2.60 - —
l.c.l., dlvd Metropolitan area 100 lbs. 3.00 - 4.00
tanks, works, frt. equald ton. 30.00 - —
22° cbys, c.l., works 100 lbs. 2.15 - —
l.c.l., dlvd Metropolitan area 100 lbs. 3.25 - 4.50
tanks, works, frt. equald ton. 35.00 - —
CP, USP, consumers, cbys., extra, c.l., works lb. .11¾- —
l.c.l., same basis lb. .13¼- .13¾
5-pint bots., extra, cs., c.l., same basis lb. .16¾- —
l.c.l., same basis lb. .19¼- —

Acid, hydrocloric, CP, USP, prices to dealers 1½c per lb less.

Hydrocyanic, cyls., frt. alld lb. .73 - 93
dilute, NF 2% 5-lb bots lb. .40 - —

Hydrofluoric, anhyd. (see Hydrogen fluoride).
tanks, works lb. .21 - —
70%, steel dms., works lb. .18½- .22½

Hydrofluosilicic, basis 30%, dms., works lb. .06 - —

Hydroxyacetic, tech., 70%, non-ret. bbls., Phila., 100% basis lb. .136 - —
tanks, Belle, W. Va., 100% basis lb. .093 - —

Hypophosphorus, purif., 50%, cbys lb. 1.30 - 1.32
USP, cbys lb. 88 - —

Isonicotinic, 100 lb fib dms, works lb. 5.00 - —
Hydrazide (see Isoniazid).

J, bbls., works, 100% basis lb. 2.50 - 2.85

Koch, bbls., frt. alld lb. .64 - .70

L, bbls., works lb. 1.25 - —

Lactic, edible, 50%, bbls., 20 or more lb. .17 - .20
smaller lots lb. .1750- .2100
80%, bbls., 5 or more lb. .30 - .3640
smaller lots lb. .305 - .3699
NF, 85%, cbys lb. .63 - .68
plastic grade, 50%, bbls., 20 or more, works lb. .2175- —
1 to 19 lb. .2225- .2278
80%, bbls., 5 or more lb. .3818- —
tech., 22%, bbls., c.l., works 100 lbs. 6.30 - —
l.c.l., works 100 lbs. 6.70 - —
cbys., l.c.l., works 100 lbs. 7.20 - 12.20
44%, bbls., c.l., works 100 lbs. 11.45 - 11.98
l.c.l., works 100 lbs. 11.15 - 12.50

Laurent's, bbls lb. .60 - —

Lauric, 90%, dms lb. .35¼- .37

Linseed oil, dist., dms lb. .2125- —
water white, dms lb. .2425- —

Maleic, cryst., powd., dms lb. .37 - .38

Malic, tech., dms lb. .50 - —

Mandelic, NF, dms., 1,000-lb. lots. lb. 2.35 - —
smaller lots lb. 2.40 - 2.50

Metanilic, dms., works lb. .57 - .75

Methacrylic, glacial, 99%, dms., truckloads, works lb. .54½- —
smaller lots, works lb. .55 - —

Molybdic, 85-92%, dms, works lb 1.27 - —

Monochloroacetic, purif. (see Acid, Chloroacetic mono-).

Muriatic (see Acid, hydrochloric)

Myristic, dms lb. .28 - .29¼

Naphthenic, 220-230 acidity, dms., works lb. .13¼- —
tanks, works lb. .11¼- —

Naphthol (1)-4-sulfonic (see Acid Nevile and Winthers)
Naphthol(1)-5-sulfonic (see Acid, L).
Naphthol(1)5-sulfonic,8-amino (see Acid, S).
Naphthol(1)-3,6-disulfonic,8-amino (see Acid H).
Naphthol(2)-6,8-disulfonic (see Acid, Gamma)
(5)-7-Sulfonic,2-amino (see Acid, J).
Naptholsulfonic, mixed (see Acid, Cleve's, mixed).
Naphthylamine(1)-3-sulfonic (see Acid, Laurent's).
(2)-6-sulfonic (see Acid, Broenner's).
(2)-7-sulfonic (see Acid, F).
(2)-1-sulfonic (see Acid, Tobias).

Abbreviations

Used in OPD Market Quotations

alld.	allowed	distr.	distributor	NNR	New and Nonofficial Remedies
amorph.	amorphous	djns.	demijohns	No.	number
AMP	American melting point	dlvd.	delivered	nom.	nominal
anhyd.	anhydrous	dms.	drums	o-	ortho
a.p.a.	available phosphoric acid	dom.	domestic	ord.	ordinary
artif.	artificial	E.	east	oz.	ounce
ASTM	American Society for Testing Materials	e.p.	end point	p-	para
		equald.	equalized	Pac.	Pacific
Atl.	Atlantic	exp.	expressed	pf.	proof
Be.	Baume	F.	fahrenheit	phos.	phosphate
bbls.	barrels	ferment.	fermentation	photo.	photographic
bgs.	bags	f.f.a.	free fatty acid	pkgs.	packages
bls.	bales	f.f.c.	free from chlorine	powd.	powdered
bots.	bottles	fib.	fiber	precip.	precipitated
b.p.	boiling point	f.o.b.	free on board	prod.	producer
b.p.l.	bone phosphate of lime	f.p.a.	free of prussic acid	pt.	point
b.r.	boiling range	frt.	freight	pulv.	pulverized
bxs.	boxes	gal.	gallon	purif.	purified
C.	centigrade	gran.	granular	redist.	redistilled
cbys.	carboys	grd.	ground	refd.	refined
CD	completely denatured	i.&a.	iron and aluminum	refy.	refinery
c.i.f.	cost, insurance, freight	i.b.p.	initial boiling point	reg.	regular
		imp.	imported	resub.	resublimed
cks.	casks	incl.	included	ret.	returnable
c.l.	carlots	indust.	industrial	SD	specially denatured
cns.	cans	kgs.	kegs	s.d.	single distilled
coml.	commercial	l-	laevo	S. E.	southeast
conc.	concentrated	lacq.	lacquer	sec.	secondary
CP	chemically pure	lb.	pound	secs.	seconds
cps.	centipoises	l.c.l.	less than carlots	s.g.	specific gravity
cryst.	crystal	liq.	liquid	shipt.	shipment
cs.	cases	m-	meta	soln.	solution
ctns.	cartons	m.a.p.	mixed aniline point	s.u.	standard unit
cyls.	cylinders			syn.	synthetic
d-	dextro	min.	minimum	tanks.	railroad tankcars
dbl.	double	m.p.	melting point	tech.	technical
denat.	denatured	N-	nitrogen	tert-	tertiary
dest-dist.	destructive-distilled	n-	normal	USP	U. S. Pharmacopoeia
		nat.	natural	vis.	viscosity
dl-	dextro-laevo	neut.	neutral	VM&P	varnish makers & painters
dist.	distilled	NF	National Formulary	W.	west
				whse.	warehouse
				w. w.	water-white

A unit-ton is 2,000 pounds of 1 percent of the basic constituent or other standard of the material. The percentage figure of the basic coastituent multiplied by the price figure shown gives the price of 2,000 pounds of the material.

Acid, Nevile and Winther's — Alcohol, Ethyl

Acid, Nevile and Winther's, dms., frt. alld lb. 1.20 - —
Nicotinic, USP, dms., frt. adjusted to citc 9.00 - 9.30
Amide, USP, (see Nicotinamide).
Nitric 36° Be cbys., c.l., works, E. 100 lbs. 5.25 - —
l.c.l., works, E 100 lbs. 5.55 - 6.35
38° Be cbys., c.l., works, E. 100 lbs. 5.75 - —
l.c.l. works E 100 lbs. 6.05 - 6.80
40° Be, cbys., c.l., works, E 100 lbs. 6.25 - —
l.c.l., works, E 100 lbs. 6.55 - 7.35
42° Be cbys., c.l., works, E. 100 lbs. 6.75 - —
l.c.l., works, E 100 lbs. 7.05 - 7.85
58.5 to 68% HNO_3, tanks, works, 100% basis 100 lbs. 3.40 - —
94½ to 95½% HNO_3, tanks, works, 100% basis 100 lbs. 4.40 - —
CP NF, consumers, cbys., extra c.l., works lb. .13½- —
l.c.l., same basis lb. .15 - .15½
5 pint bottles, extra, cs., c.l., same basis lb. .17½- —
l.c.l., same basis lb. .19 - .25
p-Nitrobenzoic, dms., c.l., works lb. .72 - —
l.c.l., works lb. .73 - —
Oleic, single dist., dms lb. .15¾- .17½
tanks lb. .14 - —
double dist., (white), dms lb. .18¼- .20
tanks lb. .16½- —
Oleum (see Acid, sulfuric, fuming).
Orthochlorobenzoic (see Acid, o-Chlorobenzoic)
Orthocresotinic (see Acid, 2,3-Cresotic).
Oxalic, bbls., c.l., works lb. .16½- —
10,000-lb. lots, works lb. .16¾- —
smaller lots, works lb. .17¼- —
b-Oxynaphthoic, bbls., works lb. 1.14 - —
Palm oil, double dist., dms lb. .13¼- .15
Para-aminobenzoic (see Acid, p-Aminobenzoic)
Acid, para-aminosalicylic (see Acid, p-Aminosalicylic).
Parachlorobenzoic (see Acid, p-Chlorobenzoic)
Paramethylphenylcinchonic (see Neocinchophen)
Paranitrobenzoic (see Acid, p-Nitrobenzoic)
Paratoluidinmetasulfonic (see Acid, p-Toluidine m-sulfonic)
Phenylacetic, pure, cryst., cns. lb .75 - 1.70
Phenylcinchoninic (see Cinchophen).
Phenylglycolic (see Acid, mandelic).
Phosphoric, food grade, 75%, cbys., c.l., works 100 lbs. 7.30 - —
l.c.l., works 100 lbs. 7.80 - 8.30
tanks, works 100 lbs. 5.10 - —
NF, 85%, cbys., c.l., works lb. .08½- —
l.c.l. works lb. .09 - .09½
Picric, NF, bbls. lb. .60 - —
tech., bbls. lb. .34 - .35
Propionic, syn., pure, dms., c.l., works lb. .21 - —
l.c.l., works lb. .22 - —
tanks, works lb. .19 - —
Pyrogallic, NF, (see Pyrogallol)
tech. bbls lb. 2.76 - 2.99
Ricinoleic (see Acid, castor oil, split).
S, bbls., works lb. 3.25 - —
Salicylic, crude, fib. dms lb. .37 - —
sublimed, tech., fib. dms., c.l. lb. .39 - —
l.c.l. lb. .46 - —
dyestuffs grade, fib. dms lb. .41 - —
USP, cryst., fib. dms lb. .48 - —
powder, fib. dms lb. .53 - —
Sebacic, purif., dms., c.l., works. lb. .64 - —
l.c.l., works lb. .66 - .70
Soybean oil, dbl. dist., dms lb. .17½- .18¾
tanks lb. .15¾- .16
s. d., dms lb. .17 - .18¾
tanks lb. .15¼- —
Acid, stearic, dbl. pressed, bgs lb. .12¾- .14½
single pressed, bgs lb. .12¼- .14
triple-pressed, bgs lb. .15 - .16¾
Succinic, purif., cryst., bbls., works lb. .62 - .75
Sulfanilic, tech., dms., c.l., frt. alld lb. .19 - —
l.c.l., frt. alld lb. .21 - —
Sulfuric, 60° Be, cbys., c.l., works 100 lbs. 2.00 - —
l.c.l., works 100 lbs. 2.45 - —
tanks, works ton. 18.60 - —
66° Be, cbys., c.l., works 100 lbs. 2.25 - —
l.c.l., works 100 lbs. 2.55 - 3.35
tanks, works ton. 22.35 - —
98%, tanks, works ton. 23.50 - —
99-100%, tanks, works ton. 23.95 - —
CP, NF, consumers cbys. extra, c.l., works frt. equald lb. .09¾- —
l.c.l., same basis lb. .11¼- .11¾
5 pt. botts., extra, cs., c.l., works, frt. equald lb. .13¼- —
l.c.l., same basis lb. .14¾- .20¾
oleum, 20%, tanks, works ton. 25.00 - —
40% tanks, works ton. 29.00 - —
65% tanks, works ton. 39.50 - —
Tallow, dist., dms lb. .12½- .14¼
hydrogenated, bgs lb. .11¾- .15½
rubbermakers, bgs lb. .10¼- .12
Tannic, NF, fluffy, bbls., 1,000-lb lots lb 1.59 - 1.60
smaller lots lb. 1.65 - 1.76
powder, bbls., 1,000-lb lots lb. 1.50 - —
smaller lots lb. 1.51 - 1.69
tech. dms lb. .95 - —
Tartaric, USP, dom., 250 or 250-lb., dms., c.l lb. .37 - —
10,000-lb. lots, 1 shipt. lb. .37½- —
smaller lots lb. .38 - —
100-lb. dms lb. .39 - —
small dms lb. .41 - .47
imp., bgs. lb. .34 - .35
Acid, thioglycolic, refined, cbys., 100% basis lb. 1.80 - 1.86
Tobias, bbls., frt. alld lb. .74 - —
Toluenesulfonic, dms., c.l., works, lb. .16 - —
l.c.l., works lb. .17½- —
p-Toluidine-m-sulfonic, bbls., works lb. .92 - 1.04
Trichloroacetic, bots. lb. 2.00 - 2.50
Trichlorophenoxyacetic (see under "T" 2,4,5T)
Undecylenic dms. lb 1.40 - —
Aconite root, bls. lb. .50 - .55
Aconitine, cryst., potent, bots oz. 78.00 - 85.00
Acrolein, tech., dms., c.l., works. lb. .47 - —
l.c.l., works lb. .47½- —
Acrylonitrile, dms., c.l., works lb. .33 - —
l.c.l., works lb. .34 - —
tanks, works lb. .31 - —
ACTH, cryst., bulk, 1,000 units/gram, bots gram. 15.00 - —
Adeps lanae (see Lanolin).
Adrenocorticotropic hormone (see ACTH).
Agar, USP, Kobe No. 1, strip, bls. lb. 2.90 - 3.10
powdered, 30 mesh fib., dms lb. 3.40 - 3.50
dl-Alanine, dms., works lb 8.50 - 11.00
Albumin, blood, dark (see Blood, dried, soluble).
light, dms., c.l lb .65 - .90
Egg, edible, flake, bbls lb. 1.27 - 1.29
powder, bbls lb. 1.31 - 1.33
tech., cryst., bbls lb. .85 - .87
Alcohol, allyl, dms., c.l., dlvd lb. .32 - —
l.c.l., dlvd lb. .33 - —
tanks, dlvd lb. .30 - —
Amyl, ex fusel oil (see Fusel oil, ref.)
ferment., refd., 128°132°C., dms., l.c.l., dlvd lb. .34 - —
ACS grade, dms., c.l., dlvd lb. .36 - —
ex-pentane, mixed, amyls, dms., c.l., frt. alld lb. .17 - —
l.c.l., frt. alld lb. .18 - —
tanks, frt. alld lb. .15 - —
primary, dms., c.l., frt. alld. lb. .19¼- —
l.c.l., frt. alld lb. .20¼- —
tanks, frt. alld lb. .17¼- —
sec-synthetic, dms., c.l., frt. alld., works lb. .18 - —
l.c.l., works lb. .19 - —
tanks, works lb. .16 - —
tert-synthetic, dms., c.l., frt. alld. E lb. .17 - —
l.c.l., frt. alld. E lb. .18 - —
tanks, frt. alld. E lb. .15 - —
1-pentanol (synthetic normal), dms., c.l., works lb. .42 - —
l.c.l., works lb. .43½- —
tanks, works lb. .40 - —
2-pentanol, dms., c.l., works lb. .65 - —
l.c.l., works lb. .70 - —
tanks, works lb. .60 - —
Benzyl, NF, dms lb. .64 - .79
tech., dms., dlvd lb. .47½- .49
n-Butyl fermentation, dms., c.l., frt. alld lb. .15 - —
l.c.l., frt. alld lb. .16 - —
tanks, frt. alld lb. .13 - —
n-synthetic, dms., c.l., dlvd lb. .15 - —
l.c.l., dlvd lb. .16 - —
tanks, dlvd lb. .13 - —
sec-synthetic, dms., c.l., dlvd. lb. .13 - —
l.c.l., dlvd lb. .14 - —
tanks, dlvd lb. .11 - —
tert-synthetic, dms., c.l., frt. alld. lb. .14 - —
l.c.l., frt. alld lb. .15 - —
tanks, works lb. .12 - —
Capryl, 85%, dms., c.l., works lb. .18 - —
l.c.l. works lb. .18½- —
tanks, works lb. .16½- —
95%, dms., c.l., works lb. .19½- —
l.c.l., works lb. .20 - —
tanks, works lb. .18 - —
Cetyl, extra, fib., cns., 500-lb. lots or more lb. .73 - —
smaller lots lb. .80 - 1.15
NF, fib., cns., 140-lb. lots or more lb. .58 - .82
smaller lots lb. .59 - .82
Cinnamic, bots lb. 2.15 - 2.75
Decyl, bots lb. 1.75 - 2.00
Industrial (see 1-Decanol).
Denatured, CD12, CD13, CD14, CD17, dms., c.l., dlvd. E. of Rockies gal. .54½- —
l.c.l., same basis, gal. .59½- .65¼
tanks, dlvd., same basis gal. .41½- —
Tankcar sales require written authorization by Alcohol and Tobacco Tax Unit.
Proprietary solvent, dms., c.l., dlvd. E. of Rockies gal. .56 - —
l.c.l., same basis gal. .61 - .67
tanks, same basis gal. .43 - —
Tankcar sales require written authorization by Alcohol and Tobacco Tax Unit.
SD1, dms., c.l., dlvd. E. or Rockies gal. .55½- —
l.c.l., same basis gal. .60½- .66¼
tanks, same basis gal. .42½- —
SD2B, dms., c.l., dlvd. E. of Rockies gal. .54 - —
l.c.l., same basis gal. .59 - .65
tanks, same basis gal. .41 - —
SD3A, dms., c.l., dlvd. E. of Rockies gal. .53 - —
l.c.l., same basis gal. .58 - .64
tanks, same basis gal. .40 - —
SD23A, dms., c.l., dlvd. E. of Rockies gal. .55½- —
l.c.l., same basis gal. .60½- .66¼
tanks, same basis gal. .42½- —
SD23H, dms., c.l., dlvd. E. of Rockies gal. .56 - —
l.c.l., same basis gal. .61 - .67
tanks, same basis gal. .43 - —
SD29, dms., c.l., dlvd. E. of Rockies gal. .54½- —
l.c.l., same basis gal. .59½- .65¼
tanks, same basis gal. .41½- —
SD30, dms., c.l., dlvd. E. of Rockies gal. .53 - —
l.c.l., same basis gal. .58 - .64
tanks, same basis gal. .40 - —
SD35A, dms., c.l., dlvd. E. of Rockies gal. .56 - —
l.c.l., same basis gal. .61 - .67
tanks, same basis gal. .43 - —
SD40, dms., c.l., dlvd. E. of Rockies gal. .54 - —
l.c.l., same basis gal. .59 - .65
tanks, same basis gal. .41 - —
Diacetone, acetone-free, dms., c.l., dlvd. lb. .14 - —
l.c.l., dlvd lb. .15 - —
tanks, dlvd lb. .12 - —
tech., dms., c.l., dlvd lb. .13½- —
l.c.l., dlvd lb. .14½- —
tanks, dlvd lb. .11½- —
Ethyl, 190 pf., USP, tax paid, dms., c.l., dlvd. E. of Rockies. gal. 20.48 - —
l.c.l., same basis gal. 20.53 - 20.59
tanks, same basis gal. 20.35 - —
tax free, dms., c.l., dlvd. E. of Rockies gal. .53 - —
l.c.l., same basis gal. .58 - .64
tanks, same basis gal. .40 - —
absolute, 200 pf., tax paid, dms., c.l., dlvd. E. of Rockies. gal. 21.58 - —
l.c.l., same basis gal. 21.63 - 21.69
tanks, same basis gal. 21.45 - —

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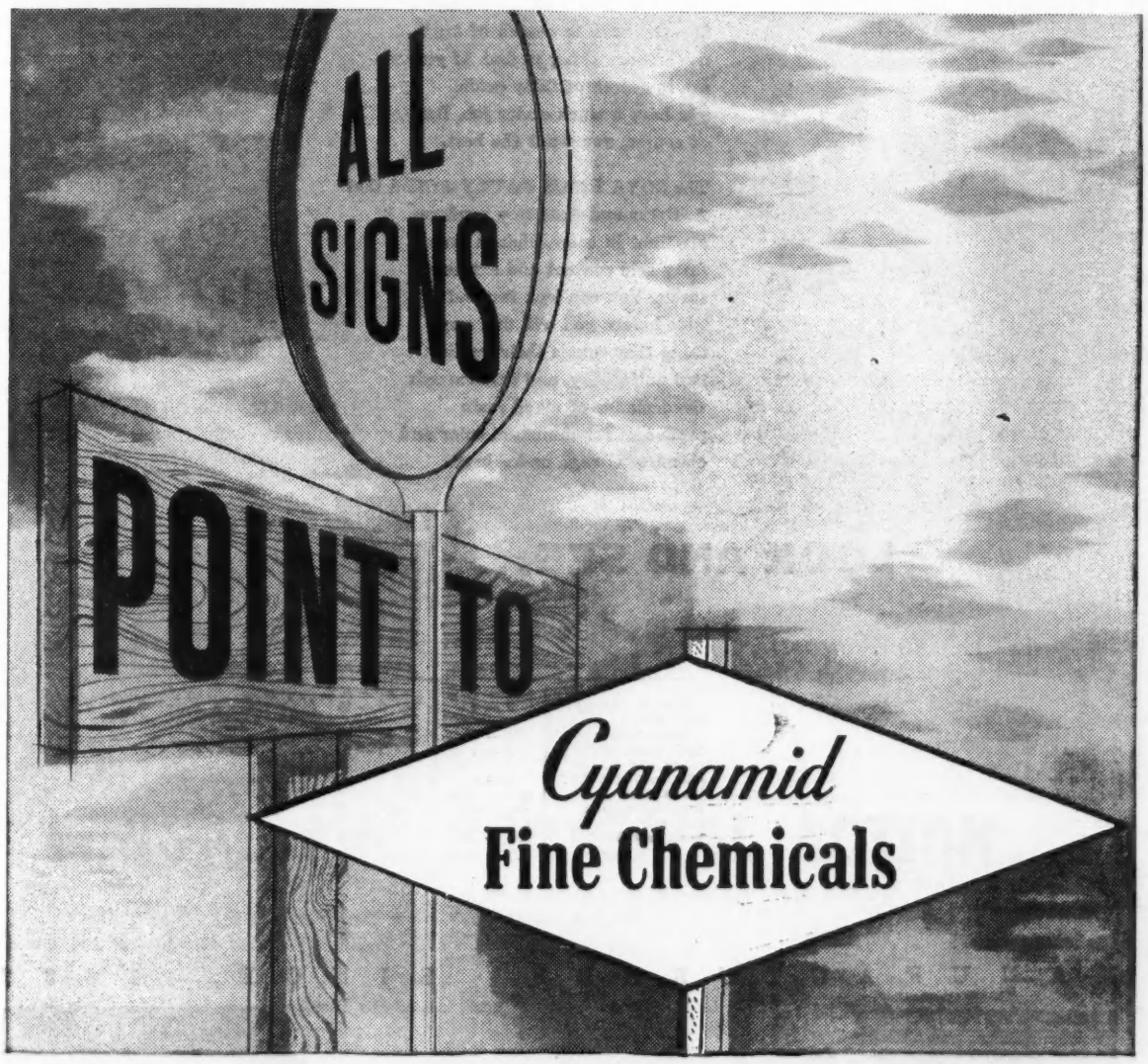
Alcohol, 2-ethylbutyl, dms. c.l., works lb. .29½- —
l.c.l., works lb. .30 - —
tanks, works lb. .28 - —
2-Ethylhexyl, dms., c.l., dlvd. E lb. .23¾- —
l.c.l., same basis lb. .24¾- —
tanks, same basis lb. .21¾- —
Furfuryl, cns., works lb. .29 - —
dms., c.l., Cedar Rapids, Ia lb. .21 - —
Newark, N. J. lb. .21½- —
l.c.l., Cedar Rapids, Ia lb. .22 - —
Newark, N. J lb. .22½- —
tanks, Memphis, Tenn lb. .184 - —
Isoamyl (see Alcohol, amyl, fermentation refined).
Isobutyl, dms., c.l., dlvd lb. .14 - —
l.c.l., dlvd lb. .15 - —
tanks, dlvd lb. .12 - —
Iso-octyl, dms., c.l., dlvd. E lb. .23 - —
l.c.l., dlvd. E lb. .24 - —
tanks, dlvd. E lb. .21 - —
Isopropyl, refd., 91%, dms., c.l., dlvd gal. .48 - —
l.c.l., dlvd gal. .55 - —
tanks, dlvd. gal. .35 - —
95% dms., c.l., dlvd gal. .50 - —
l.c.l., dlvd gal. .57 - —
tanks, dlvd gal. .37 - —
99%, dms., c.l., dlvd gal. .52 - —
l.c.l., dlvd gal. .59 - —
tanks, dlvd gal. .39 - —
Lauryl, bots lb 2.00 2.50
Methyl (see Methanol).
Methylamyl (see Carbinol, methylisobutyl).
Octyl, perfumers grade, bots lb. 1.75 3.25
tech. (see Octanol, normal).
2-Phenylethyl, extra, dms lb. 1.14 - 1.45
standard, dms. lb. 1.26 - 1.35
Alcohol, n-propyl, dms., c.l., dlvd lb. .12 - —
t.c.l., dlvd lb. .13 - —
tanks, dlvd lb. .10 - —
Tetrahydrofurfuryl, cns., Cedar Rapids, Iowa lb. .54 - —
dms., c.l. Niagara Falls, N lb. .43½- —
l.c.l., Newark, N. J., Cedar Rapids, Ia lb. .47 - —
tanks, Niagara Falls, N Y lb. .43 - —
indust. grade, dms., c.l., Niagara Falls, N. Y lb. .305 - —
l.c.l., Newark, N. J., Cedar Rapids, Ia lb. .33 - —
tanks, Niagara Falls, N. Y. lb. .29 - —
Wood (see Metnanol).
Aldol, 95%, dms., works lb. .23 - —
denaturing grade dms gal 2.15 - —
Aldrin, 60% soln., dms., c.l., works, frt alld lb .538 - —
l.c.l., works, frt. alld lb. .588 - —
Aletris root, bgs lb. 1.75 1.85
Algin (see Sodium alginate).
Allethrin, 100% dms, frt., alld lb 32.00 —
90%, dms., frt. alld lb. 29.15 - —
solution, 20% dms, 100-lb lots frt. alld lb. 6.80 - —
2½%, dms., frt. alld lb. .90 - 1.25
Allspice (see Pimento).
Allyl bromide, cbys., works lb 1.35 1.40
Chloride, dms., c.l., dlvd lb. .17 - —
l.c.l., dlvd. lb. .18 - —
tanks, dlvd lb. .15 - —
Starch, solid dms., works lb. .52¾- .54¾
solution, 40% toluol-butanol, dms., works lb. .25½- .26¼
Aloe, Cape, cs .36 - —
powd., cs. lb. .50 - —
Curacao, kgs lb. .50 .55
Socotrine, kgs lb. No prices
Aloin, USP, bbls., dms., kgs lb. 3.75 3.82
Alphanapthol (see a-Naphthol).
Alphanaphthylamine (see a-Naphthylamine).
Alphanitronaphthalene (see a-Nitronaphthalene).
Alphapicoline (see a-Picoline).
Alphaterpineol (see a-Terpineol).
Alphatocopherol (see a-Tocopherol).
Alum, ammonium, gran., bgs., works 100 lbs. 4.30 - —
lump, dms., works 100 lbs. 5.05 - —
powd., dms., works 100 lbs. 5.20 - —
USP, burnt, dms lb. .20 - .21
hydrous, dms. lb. .07¼- .08
Potassium, gran., bgs., works. 100 lbs. 4.55 - —
lump, dms., works 100 lbs. 5.30 - —
powd., dms., works 100 lbs. 5.45 - —
USP, burnt dms lb. .20 - .21
hydrous dms lb. .07¾- .08
Potash-chrome, dms. lb. .17 - —
Sodium, dms., c.l. works 100 lbs. 4.60 - —
l.c.l., works 100 lbs. 5.00 - —
Alumina, calcined, bgs., c.l., works. lb. .0385- —
t.c.l., works lb. .0410- .0510
Aluminum acetate, basic solut., 24%, bbls. t.c.l. works lb. .14 - —
Chloride, coml., anhyd., dms., c.l., works, frt. equald lb. .15 - —
t.c.l. works, frt equald. lb. .1550- —
cryst., dms., c.l., works lb. .1030- —
l.c.l., works lb. .1070- —
soln. 32° cbys., c.l., works lb. .0369- —
l.c.l., works lb. .0435- .0960
tanks, works 100 lbs. 2.80 - —
NF, gran., dms., works lb. .29 - .31
Fluoride, tech., anhyd., bgs., c.l., works lb. 15.75 - —
l.c.l., works lb. 16.75 -18.75
Aluminum fluoride, tn fib. dms., 0.35c per lb higher.
Formate, basic soln., cbys lb. .09½- —
t.c.l. works lb. .10 - —
Hydrate, heavy, bgs., c.l., frt. equald ton. 60.00 - —
l.c.l., works ton. 65.00 -85.00
light bgs. dlvd lb. .17 - —
Hydroxide, gel, pharmaceutical, 14-15% Al_2O_3 fib dms., works lb. .22 - —
contract, works lb. .21 - —
9-9¼% Al_2O_3 fib dms., works lb. .19 - —
contract, works lb. .18 - —
dried, USP, XIV, fib., dms., works lb. .82½- —
contract, works lb 79½- —
tech., powder (see Aluminum hydrate).
Metal, 99%+, ingots, 10,000-lb. lots, frt. alld lb. .222 - —
pigs, 10,000-lb. lots, frt. alld. lb. .20½- —
Oxide, amorpnous (see Alumina, calcined).
Paste, lining, extra-fine, dms lb. .63½- —
standard, dms lb. .43 - —
Powder, lining, extra fine, dms lb. 1.02½- —
standard, dms lb. .72 - —

Aluminum powder and paste prices are f.o.b. shipping point. Add 1c per lb for 100-lb. dm., 1½c. per lb for 50 lb dm., 3c. per lb. for 10-lb. can and 5c. to 12c per lb for smaller containers. Deduct 1c. per lb for single shipment of 400 to 1,499 lbs. 2c. for 1,500 to 4,999 lbs., 3c. for 5,000 to 29,999 lbs., and 4c. for 30,000 lbs or more. Where destination is within the continental U. S., a deduction equivalent to the lowest available common carrier transportation rate will be made from seller's invoice on orders of 200 lbs or over.

Resinate, precip., 2.1% Al, dms., frt. alld lb. .30 - —
Stearate, dibasic, ctns., c.l. lb. .33 - —
t.c.l. lb. .34 - .37
monobasic, ctns., c.l. lb. .33 - —
t.c.l. lb. .34 - .37
tribasic ctns., c.l. lb. .33 - —
t.c.l lb. .34 - .37
Sulfate, coml., bulk, c.l., works. 100 lbs. 1.85 - —
grd., c.l., bgs., works ton. 37.00 - —
lump c.l., bgs., works ton. 40.00 - —

Aluminum sulfate, iron-free, bgs., c.l., works, frt. equald 100 lbs. 3.55 - —
l.c.l., works, frt. equald 100 lbs. 3.95 - —
USP, gran., dms., works lb. .16 - .18
powd., dms., works lb. .22 - .24
Trihydrate heavy (see Aluminum hydrate, heavy).
Ambergris, gray, bots oz. 8.90 -10.00
Aminoazotoluene, base, bbls., 100% basis lb. 1.03 - 1.18
o-Aminobiphenyl, dms., c.l., works. lb. .32½- —
l.c.l., works lb. .33 - —
tanks, works lb. .31 - —
Aminoethyl ethanolamine, dms., c.l., dlvd lb. .46½- —
l.c.l. dlvd. lb. .45 - —
tanks, dlvd lb. .45 - —
2-Amino-2-methyl-1-propanol, cns., dms. works lb. .60 - —
m-Aminophenol, distilled, dms., ton lots lb. 2.05 - —
smaller lots lb. 2.30 - —
p-Aminophenol, dms. frt. alld lb. .97 - .98
Aminophylline, USP 100-lb. dms lb. 3.55 - —
Aminopyrine, USP bots. dms lb 4.75 - —
Ammonia, anhyd., fertilizer, tanks, works, frt. equald ton. 85.00 -88.00
pure cyls., extra, zone 1 lb. .18½- —
2 lb. .19 - —
3 lb. .19½- .20
4 lb. .20 - —
5 lb. .21 - —
refrigeration tanks, works, frt. equald. ton. 87.50 -90.50
Aqueous (29.4% NH_3), dms., c.l., dlvd. Metropolitan area. 100 lbs. 3.60 - —
t.c.l., works 100 lbs. 4.00 - —
tanks, works, anhyd. basis. on. 96.00 —
Ammoniac, sal, gray, bgs., c.l., works, frt equald 100 lbs. 8.25 - —
t.c.l., same basis 100 lbs. 8.65 -11.15
white, gran. (see Ammonium chloride, tech.)
Ammoniacal liquor, tankcars, works, anhyd basis ton. 96.00 - —
Ammonium acetate, purif., dms lb. .38 - —
Benzoate, USP, dms., kgs., 4,000-lb. lots, frt. alld lb. .80 - —
smaller lots, frt. alld lb. .83 - 1.08
Biborate, gran., dms., c.l., works. ton. 317.00 - —
ton lots, ex whse ton. 390.50 - —
smaller lots, ex whse ton. 395.50 - —
Bicarbonate, dom., dms., c.l., works 100 lbs. 6.50 - —
l.c.l., works 100 lbs. 7.50 - —
imp., dms., l.c.l. lb. .07¼- .08½
Bichromate, dms., works lb. .42 - .43
Bifluoride, dms., dlvd lb. .2145- .2245
Bromide, NF, gran., bbls lb. .38 - .39
dms. lb. .39 - .42
Powdered ammonium bromide 10c. per lb. higher.
Carbonate, USP, lump, powd., dms lb. .23 - .24
Chloride, tech., white, gran., bgs., c.l., works 100 lbs. 5.25 - —
l.c.l., works 100 lbs. 7.00 - —
USP, gran., bbls., dms lb. .17¼- - 4.38
Citrate, dibasic, bbls lb. .75 - —
dms. lb. .80 - .85
Dichromate (see Ammonium bichromate).
Fluoride (see Ammonium bifluoride).
Hydroxide (see Ammonia, aqueous).
Hypophosphite, NF, dms lb. 3.07 - —
Iodine, NF, dms., bots lb. - 4.26 - 4.38
Linoleate, 80%, dms., works lb. .50 - .55
Nitrate, fertilizer grade, dom., 33.5% N., bgs., western, works, frt equald ton. 68.00 -70.00
with dolomite, 20.5% N, bgs., Hopewell, Va ton. 51.00 - —
Ammonium nitrate, imp., Canadian, 33.5% N, eastern, bgs., c.l., shipt. point, frt. equald to $6 per ton ton. 74.50 - —
western, bgs., c.l., f.o.b. cars, Los Angeles ton. 89.84 - —
Oxalate, fine gran., dms lb. .26½- .31
Pentaborate, gran., dms., c.l., works ton. 227.00 - —
ton lots, ex whse ton. 300.50 - —
smaller lots, ex whse ton. 305.50 - —
Ammonium pentaborate powder, $10 per ton higher
Perchlorate, kgs., works lb. .50 - .75
Persulfate, kgs lb. .38 - —
Phosphate, coml., bgs., c.l., works, frt. equald lb. .0865- —
t.c.l. same basis lb .09 - —
dibasic, NF V bnls. dms lb. 45 - —
tech. bgs c l works, frt. equald lb. .0865- —
l.c.l., same basis lb. .0915- —
Salicylate NF, dms., kgs lb. 1.62 1.64
Silicofluoride dms works lb. .11 .12
Sulfamate, bbls., dms., works lb. .18 .20
Sulfate, coke-oven, bulk, producing ovens ton. 42.00 -47.50
syn., bgs., c.l., western, works. ton. 47.00 - —
bulk, works ton. 42.00 - —
purified, dms., works lb 08½- .10
Sulfide, liq., 40-44%, dms., c.l., frt. equald., 100% basis. ton. 240.00 - —
l.c.l., works, 100% basis. ton. 300.00 - —
tanks, frt. alld., 100% basis. ton. 180.00 - —



for Folic Acid

You can actually *see* the superiority of Cyanamid Folic Acid! Its color is a lighter, paler yellow—visual proof of its purity. And *all* Cyanamid Folic Acid is of this same lighter yellow, parenteral grade.

Cyanamid was first to synthesize Folic Acid, first to achieve commercial production. Cyanamid has promoted it continually to the medical profession, and is currently reminding physicians that Folic Acid has been established as essential to human nutrition.

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Ammonium Sulfocyanide—Bismuth Metal

Ammonium sulfocyanide, tech. (see Ammonium thiocyanate).
Thiocyanate, tech., dms., c.l., works lb. .20 - —
l.c.l., works lb. .22 - .26
Thioglycollate, coml., cbys., 100% basis lb. 1.60 - —
highly purif., cbys., 100% basis. lb. 1.70 - 1.96
Thiosulfate, cryst., photo grade, fib dms., frt. alld lb. .65 - —
60% soln., dms., c.l., works lb. .06½- —
d-Amphetamine hydrochloride di-basic, bots lb.28.00 - —
dl, dms lb. 6.00 - —
d-monobasic, bots lb.28.00 - —
d-Phosphate, dibasic, bots lb.28.00 - —
dl, dms lb. 6.00 - —
d-Sulfate, dms lb 28.00 - —
dl, dms lb. 6.00 - —
Amyl acetate, ex fusel oil, tech., frt. alld. E. of Rockies lb. .17 - —
l.c.l., same basis lb. .18 - —
tanks, same basis lb. .15 - —
ex pentane, reg., dms., c.l., dlvd. lb. .17 - —
l.c.l., same basis lb. .18 - —
tanks, same basis lb. .15 - —
tech., dms., c.l., dlvd. lb. .15 - —
l.c.l., same basis lb. .16 - —
tanks, same basis lb. .13 - —
Alcohol (see Alcohol amyl).
n-Butyrate, dms lb. .90 - 1.25
Cinnamic aldehyde, dms. lb. 1.70 - 2.00
Nitrite, USP, bots lb. 1.75 - 1.83
Salicylate, cns., dms lb. .74 - 1.05
o-tert-Amyl phenol, dms., c.l., works. lb. .43¾- —
l.c.l., works lb. .46¾- —
tanks, works lb. .41¾- —
p-tert-Amyl phenol, dms., c.l., works. lb. .24¾- —
l.c.l., works lb. .25¾- —
tanks, works lb. .23¾- —
Anethole, NF, cns., dms lb. 1.25 - 1.55
tech., dms lb. .75 - 1.20
Angelica root, dom., bls lb. .60 - .70
Aniline oil, dms., c.l., works, frt. alld. lb. .21 - —
l.c.l., works, frt. alld lb. .22 - —
tanks, works, frt. alld lb. .20 - —
Salt, dms., frt. alld lb. .33 - —
c.l., truckloads, 20,000 lbs. min. lb. .31 - —
Anise, Mexican, bgs lb. .23 - —
Spanish, bgs. lb. .33 - —
Syrian, bgs. lb. .23 - —
Anisic aldehyde, bots., dms lb. 1.80 - 2.70
o-Anisidine, dms., works lb. .88 - —
p-Anisidine, dms., works lb. .97 - —
Annatto seed, whole, bgs. lb .24 - —
powd., dms. lb. .28 - —
Anthracene, 90-95%, bbls., ton-lots, works lb. .70 - —
smaller lots, works lb. .95 - —
Anthraquinone, 99.5%, bbls., frt. alld lb. .88 - —
Antimony butter (see Antimony trichloride)
Metal, bulk, c.l., mines lb. .28½- —
cs., c.l., mines lb. .29 - —
Oxide, bgs., c.l., frt. alld lb. .29 - —
l.c.l., frt. alld lb. .30½- —
Sulfide, approx. 60%, bgs., dlvd. lb. .27 - .30
Trichloride, anhyd., pails, c.l., works lb. .38½- —
l.c.l., works lb. .40½- —
Antimony potassium tartrate, tech., gran. or powd., dms lb. .56 - .59
USP, powd., dms lb. .61 - .62
Antipyrine, NF, dms lb. 2.50 - 2.70
Apomorphine hydrochloride, USP, bots oz.23.40 -23.90
Areca nuts, powd., bbls lb. .15 - .16
Arecoline hydrobromide, NF, bots. tins oz. 4.50 - 6.00
l-Arginine monohydrochloride, dms., 1-kilo lots kilo.74.80 -83.00
Argols, min. 50%, bgs., shipt. ports per 100 kilos, 100% basis.24.50 - —
Arnica flowers (true montana), bls. lb. 2.50 Nom.
Arsenic metal, lump, bbls., prompt ship't lb. .60 - —
Trioxide, USP, dms lb. .48 - —
White, powd., bbls., c.l., dlvd lb. .05½- —
l.c.l. dlvd. lb. .06½- .07½
Asafetida, cs lb. .36 - .39
powd., bbls., dms lb. .50 - .53
Asbestine (see Talc, fibrous, N. Y.)
Asbestos, Canadian, crude, No. 1, c.l. (20 tons), mines ton.1,300.00- —
No. 2, c.l. (20 tons), mines.ton.675.00 - —
Run-of-mine, c.l., (20 tons), mines ton.556.00 - —
3K, c.l. (20 tons), mines ton.436.00 - —
3R, c.l. (20 tons), mines ton.371.00 - —
3T, c.l. (20 tons), mines ton.348.00 - —
3Z, c.l. (20 tons), mines ton.321.00 - —
4K, c.l. (20 tons), mines ton.173.00 - —
4M, c.l. (20 tons), mines ton.173.00 - —
4T, c.l. (20 tons), mines ton.156.00 - —
4Z, c.l. (20 tons), mines ton.156.00 - —
5D, c.l. (20 tons), mines ton.122.50 - —
5K, c.l. (20 tons), mines ton.122.50 - —
5M, c.l. (20 tons), mines ton.116.50 - —
5R, c.l. (20 tons), mines ton.110.00 - —
6D, c.l. (30 tons), mines ton.78.00 - —
7D, c.l. (30 tons), mines ton.68.50 - —
7F, c.l. (30 tons), mines ton.65.00 - —
7H, c.l. (30 tons), mines ton.55.00 - —
7K, c.l. (30 tons), mines ton.46.00 - —
Asbestos, Canadian, crude, 7M, c.l., (30 tons), mines ton.40.00 - —
7R, c.l. (30 tons), mines ton.39.00 - —
7T, c.l. (30 tons), mines ton.37.00 - —
7RF, c.l. (30 tons), mines ton.40.00 - —
7TF, c.l. (30 tons), mines ton.40.00 - —
8S, c.l., (30 tons), mines ton.27.00 - —
Asbestos c.l. prices are in U. S. funds, l.c.l., lots, $4 per ton higher.
Asphalt, gilsonite, black, jet, bgs., c.l., mines ton.37.00 - —
select, 350°F., fusing pt., bgs., c.l., mines ton.38.00 - —
270°-295°F., fusing pt., bgs., c.l., mines ton.37.00 - —
seconds, 300°-390°F. fusing pt., bgs., c.l., mines ton.32.00 - —
Manjak, No. 10, crude, dms., works lb. .06¼- —
Petroleum, cut-back, tanks, tankwagon, refy. gal. .09 - —
emulsion, tanks, tankwagon, refy. gal. .09½- .10
steam-refd., less than 80 penetration tanks, tankwagon, refy. ton.21.00 - —
80-300 penetration, tanks, tankwagon, refy. ton.20.00 - —
Aspirin (see Acid, acetylsalicylic).
Atropine, USP, bots oz. 7.00 - —
Sulfate, USP, bots oz. 4.00 - —

B

Bacitracin, bulk, 1,000,000,000 or more units 50,000 units. .70 - —
less than 1,000,000,000 units 50,000 units. .75 - —
Balm of Gilead buds, dried, bgs lb. 1.35 - 1.45
Barberry root, bark, bags lb. .28 - .30
Barbital, USP, 100-lb. dms lb 4.50 - —
Sodium, USP, dms lb. 4.75 - 4.77
Barium carbonate, precip., bgs., c.l., works ton.92.50 - —
smaller lots works ton 102.50 - —
Chlorate kgs., works lb 32 - .36
Chloride, anhy., bgs., c.l., works. ton.15800 - —
l.c.l. works ton 168.00 - —
cryst., tech., dms., c.l., works 100 lbs. 6.00 - —
l.c.l., works 100 lbs. 6.50 - —
NF, cryst., dms lb. .18 - —
Chromate, bgs. frt. equald lb. .35 - —
Dioxide (see Barium peroxide).
Hydrate, cryst., bgs ton.180.00 -190.00
Monoxide (see Oxide).
Nitrate, bbls., c.l., works lb. .12½- —
l.c.l., works lb. .14 - —
Oxide grd., dms., c.l., frt. equald. ton.255.00 - —
l.c.l. works ton.265.00 - —
Peroxide, dms., works lb. .16 - —
Stearate, ctns., c.l., frt. alld lb. .37 - —
l.c.l., same basis lb. .38 - .42
Sulfate, tech. (see Barytes and Blanc fixe).
X-ray, dms lb 14 - .14½
Sulfide, dms., c.l., works ton.85.00 - —
l.c.l., works ton 95.00 - —
Barytes, Southern off-color, bgs., mines ton.25.00 - —
95.75%, bgs., mines ton.25.00 - —
water-grd., paper bgs., c.l., E. St. Louis ton.41.60 - —
ex-whse., N. Y. ton.60.10 - —
Bauxite, bulk, mines ton. 9.50 -10.00
Bay leaves (see Laurel leaves).
Belladonna leaf, bls lb. .35 - .37
root, bls lb. .45 - .50
Bentonite, dom., 200 mesh bgs., c.l., mines ton.14.00 - —
imp., Italian, white, high gel., bgs., 5-ton lots, ex whse ton.80.60 - —
1 ton-lots, ex whse ton 83.10 - —
low gel, bgs., 5 ton-lots, ex whse ton.78.95 - —
1 ton-lots, ex whse ton 81.45 - —
Benzal chloride, cbys., works lb. .22 - .23½
Benzaldehyde, NF., dms lb. .74 1.05
tech., cbys., dms lb. .44 - —
Benzene (see Benzol).
Hexachloride, 25% and 99% gamma isomer (see Lindane).
tech., bgs., dms., c.l., works, gamma unit-lb. .0075- .009
l.c.l., works, gamma unit-lb. .015 - —
wet dust, distributors, dms., c.l., dlvd., gamma unit-lb. .02 - —
l.c.l., dlvd., gamma unit-lb. .021 - —
Benzidine hydrochloride, bbls., frt. alld., 100% basis lb. 1.00 - —
Benzocaine, dms lb. 3.48 3.50
Benzol, pure or nitration, tanks, works
Bethlehem, Pa gal. .40 - —
Birmingham district gal. .40 - —
Chicago district gal. .40 - —
Cleveland district gal. .40 - —
Geneva, Utah gal. .40 - —
Johnstown, Pa gal. .40 - —
Lackawanna, N. Y. gal. .40 - —
Lone star, Texas gal. .40 - —
Lorain, Ohio gal. .40 - —
Minnequa Colo gal. .39 - —
Philadelphia district gal. .40 - —
Pittsburgh district gal. .40 - —
Sparrows Point, Md. gal. .40 - —
Syracuse, N. Y. gal. .40 - —
Terre Haute, Ind. gal. .40 - —
Youngstown, Ohio gal. .40 - —
Benzophenone dms lb. 1.40 1.70
Benzonitrile, dms., c.l., works lb. .46¾- —
l.c.l., works lb. .47 - —
Benzotrichloride, cbys., frt. equald. lb. .18 - .20
Benzoyl chloride, cbys., dms., c.l., works, frt. equald. lb. .22 - —
l.c.l., same basis lb. .23 - —
tank trucks, dlvd. Metropolitan area lb. .20 - —
Peroxide, pur., fib. dms., 50-1,000-lb. lots, works lb. .98 - 1.08
Benzyl acetate, f.f.c., cns., dms lb. .62 - 1.04
Alcohol (see Alcohol, benzyl).
Benzoate, USP, f.f.c., cns., dms.lb. .62 - 1.10
Chloride, tech., cbys., dms., c.l., works, frt. equald. lb. .20½- .23½
l.c.l., same basis lb. .21½- .24½
High grade benzyl chloride, 2c. higher.
Cinnamate, cns. lb. 3.35 - 3.90
Formate, cns. lb 1.30 2.10
Isoeugenol, cns. lb. 8.60 - 9.10
Propionate, bots. lb. 1.35 - 1.65
Salicylate, bots. lb. 1.50 - 1.85
Benzylidine acetone, bots lb. 1.68 - 1.80
Chloride (see Benzal chloride).
Berberine bisulfate, cns. lb.35.00 -36.25
Hydrochloride, bots lb.35.00 -36.25
Betagammapicoline (see b,g-Picoline).
Betamethylnaphthalene (see b-Methylnaphthalene).
Betanaphthol (see b-Naphthol).
Betanaphthylamine (see b-Naphthylamine).
Betaphenylethylamine (see b-Phenylethylamine).
BHC (see Benzene hexachloride, technical).
Biotin cryst., bots gram.10.00 - —
Biphenyl (see Diphenyl).
Bismuth chloride, jars lb. 5.11 - —
Hydroxide, dms. lb. 4.65 - —
Metal, bxs., ton lots lb. 2.25 - —

Socrates was in search of truth, not an easy thing to find. If you are in search of fatty acids, you have a much easier job. But, of course, you want the best.

The SOYA BEAN FATTY ACIDS that A. Gross and Company produces are light in color, high in free fatty acid content and extremely stable. You can look far and wide before you will find anything that equals their quality and uniformity, and that exceeds the demands of alkyd resin producers for minimum color and chemical change under heat.

LOOK AND SEE...

	GROCO 28	GROCO 27
Titre	25°— 30°C.	25°— 30°C.
Color 5¼" Lovibond Red	2 — 4	5 — 10
Color 5¼" Lovibond Yellow	10 — 30	30 — 60
Color Gardner 1933	2 — 4	3 — 5
Color Gardner 1933— After Heat Test to 500°F.	4 — 7	
Unsaponifiable	0.3%— 1.5%	3.0% max.
Saponification Value	198 — 202	195 — 200
Acid Value	197 — 201	194 — 199
Iodine Value (WIJS)	125 — 135	122 min.

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Factory, Newark, N. J.
Distributors in Principal Cities

Bismuth nitrate, cryst., dms.....lb. 2.10 - 2.17
Oxide, anhyd., dms.....lb. 4.47 - 5.05
Oxychloride, dms.....lb. 4.37 - 4.42
Phenolsulfonate, fib. dms.....lb. 5.22 - —
Subcarbonate, USP, dms.....lb. 3.20 - —
Subgallate, NF, fib. dms.....lb. 3.15 - —
Subiodide, fib. dms.....lb. 5.37 - —
Subnitrate, NF, dms.....lb. 2.65 - —
Subsalicylate, USP, dms.....lb. 3.50 - —

Bismuth-ammonium citrate, USP, powd., jars lb. 4.22 - —

Black, acetylene, bgs., c.l., works.lb. .17 - —
cs., l.c.l., shipt. point.....lb. .22½- .26
Ash (see Barium sulfide).
Bone, dms. l.c.l., frt. alld....lb. .17 - .23¼
Pacific coast bone black prices, 2c. per lb. higher
Carbon, channel, pigment, high color, beads. ctns., c.l., works. lb. .72 - —
l.c.l., dlvd. or whse.lb. .78 - —
medium color, uncompressed, bgs., c.l., works lb. .12 - —
l.c.l., dlvd. or whse.lb. .19 - —
rubber, beads, bulk, c.l., works lb. .07 - —
bgs., c.l., works.....lb. .074 - —
c.l., works.....lb. .1225- —
furnace, fast extruding, bgs., c.l., works lb. .06 - —
ctns., l.c.l., whse.....lb. .10 - —
high abrasion, bulk, c.l., works. lb. .0750- —
bgs., c.l., works.....lb. .0790- —
l.c.l., dlvd. or whse lb. .122 - .125
high modulus, bgs., c.l., works. lb. .0550- —
ctns., l.c.l., whse.....lb. .0950- —
semi-reinforcing bgs., c.l., works lb. .045 - —
bgs., cns., l.c.l., whse...lb. .085 - —
Charcoal (see C).
Dyes (see Dyes).
Graphite (see G).
Iron oxide, pure, bgs., c.l., works. lb. .12¾- —
l.c.l., works.....lb. .13 - —
Lamp, bgs., c.l., works.....lb. .16 - .45
Mineral, bgs., works.....lb. .0160- .0675
Blackberry root bark, bls.....lb. .45 - —
Black haw root bark, bls.....lb. .65 - .70
tree bark, bls.....lb. .40 - .45
Blanc fixe, dry byproduct, bgs., c.l., works ton.190.00 - —
l.c.l., works ton.200.00 - —
direct process, bgs., c.l., works. ton.100.00 - —
l.c.l., works ton.110.00 - —
N. Y. whse ton.140.88 -165.00
pulp, 70%, bbls., c.l., works. ton.105.00 - —
l.c.l., works ton 115.00 - —
Bleaching powder, dms., c.l., works. 100 lbs. 5.02 - —
l.c.l., works 100 lbs. 6.52 - —
Blood, dried, 16-16½% ammonia, bgs. unit-ton. 8.00 - —
high-grade unground, 16-17% ammonia, bgs., Chicago. unit-ton. 8.25 - —
soluble, bgs., c.l.....lb. .17 - .19
l.c.l.....lb. .18 - .25
Bloodroot, bls.....lb. .60 - .65
Blue alkali, dry, bbls., dlvd. N. or Tenn. and N. C., E. of Miss R. including St. Paul Minneapolis, Davenport Rock Island, St. Louis lb. 2.00 - —
toner bbls. tithe flushed same basis lb. 1.15 - —
Chinese, bbls. same basis lb. .48 - —
Blue, cobalt, genuine, bbls., same basis lb. 4.90 - —
Imitation (see Blue ultramarine).
Dyes (see Dyes).
Iron (see Blue, Chinese, Milori, Potash, Prussian and Soda).
Methyl violet toner, molybdated, PMA, bbls., same basis lb. 2.60 - —
tungstated, PTMA, bbls., same basis lb. 3.85 - —
Milori, bbls., same basis.....lb. .48 - —
Peacock, fugitive, 100% color strength, bbls., same basis lb .75 - —
Phthalocyanine, full strength, bbls., same basis lb. 3.45 - —
resinated, bbls., same basis lb. 3.00 - —
water dispersable, bbls., same basis lb. 1.54 - —
Potash, CP, bbls. same basis lb. .56 - —
Prussian, insoluble, bbls., same basis lb. .48 - —
soluble, bbls., same basis.....lb. .48 - —
Soda, CP, bronze, bbls., same basis lb. .56 - —
Ultramarine, cobalt type, dry or pulp, bbls., same basis lb. .30½- .35
jobbing types, bbls., same basis. lb. .16½- .18½
reg. types, dry, bbls., same basis. lb. .22½- .35
Victoria toner, molybdated, PMA, bbls lb. 4.10 - —
tungstated, PTMA, bbls.....lb. 5.00 - —
Blue dry colors, dlvd. prices ½c. higher Ala., Fla., Ga., La. (Shreveport 1¼c.), Miss., N. C., S. C., Tenn., Tex. (El Paso 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph 1.6c. higher. Pac. Coast, Denver, Pueblo, Salt Lake City, Wichita, frt. equalized with Chicago.
Blue vitrol (see Copper sulfate).
Bluestone (see Copper sulfate).
Bonemeal, steamed, works, E..ton.62.00 -65.00
Los Angeles, works.....ton.82.00 - —
Bone phosphate defluorinated (see D) of lime (see Calcium phosphate, tribasic), precipatated (see Calcium phosphate tribasic, NF, precip.).
Borax, tech., anhyd., bgs., c.l., works. ton.78.00 - —
ton lots ex whse. N. Y. or Chicago..ton.125.75 - —
bulk, c.l., works ton 70.00 - —
cryst., 99%, bgs., c.l., works. ton.67.25 - —
ton lots, ex-whse., N. Y. or Chi ton.115.00 - —
smaller lots, same basis. ton.120.00 - —
gran., decahydrate, 99½%, bgs., c.l., works ton.41.25 - —
ton lots, ex whse., N. Y. Chi. ton.89.00 - —
smaller lots, same basis. ton.94.00 - —
bulk, c.l., works.....ton.35.75 - —
pentahydrate, 99½%, bgs., c.l., works ton.55.50 - —
ton lots, ex whse. N.Y., Chi ton.108.25 - —
smaller lots, same basis. ton.103.25 - —
powd., 99½%, bgs., c.l., works. ton.46.25 - —
ton lots, ex-whse., N. Y. or Chi. ton.94.00 - —
smaller lots, same basis. ton.99.00 - —
Borax packed in kgs., $45.50 per ton higher than in paper bgs.; in barrels, $24.50 higher USP borax $15 per ton higher.
Bordeaux mixture, bgs., c.l., works, frt alld or nearest whse. pt lb. 18 - 24
l.c.l., same basis.....lb. .19 - .26

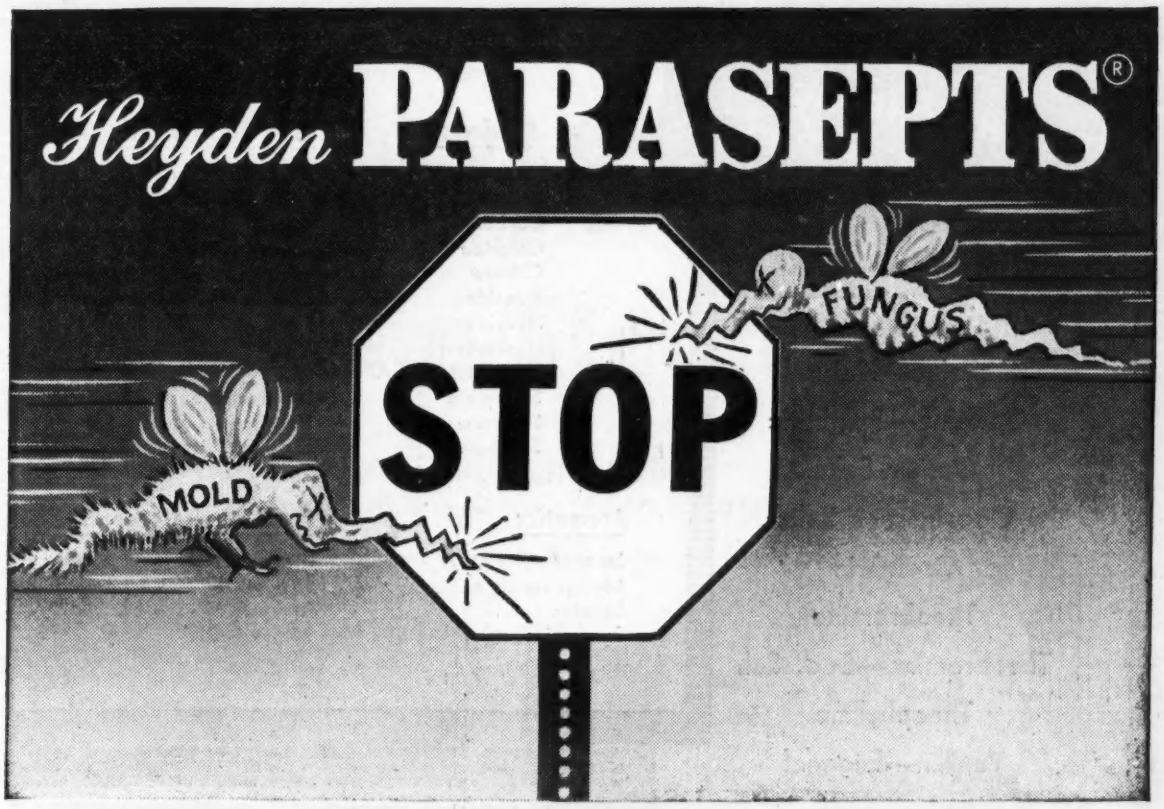
Borneol, cns.....lb. 2.50 - 4.50
Borontrifluoride gas, cyls., truckload, works lb. .62 - —
less truckload, works.....lb. .70 - —
Brazilwood extract (see Hypernic extract)
Brimstone (see Sulfur).
Bromine, purif., cs., c.l., dlvd, E. of Rockies lb. .27 - —
l.c.l., up to 1,000-lb. lots, same basis lb. .29 - —
dms., lead-lined, dlvd.....lb. .34 - —
Bromoform, pharmaceutical grade, bots lb 1.62 2.60
cybs.....lb. 1.52 - —
Bromstyrol, bots.....lb. 5.40 - 5.70
Bronze powder aluminum (See A).
Brown, iron oxide, pure, bgs., c.l., works lb. .13¾- —
l.c.l., works lb. .14 - —
Oxide, metallic, bgs, works....lb. .04 - —
Sienna, burnt, paper bgs., c.l., works. lb. .04¼- .15¼
l.c.l., works lb. .04½ .15½
raw, paper, ngs. c.l. works lb. .04½ .13
l.c.l. works lb. .04¾ .13¼
Umber, burnt, American, bgs., c.l., works lb. .06 - —
l.c.l., works.....lb. .06¼- .07
Turkey type bgs. c.l. Boston, Bethlehem, Easton, Pa., Hiwassee, Va., N. Y lb. .06¾- —
l.c.l., works.....lb. .07 - —
raw, American bgs., works lb .06¼ .06¼
Turkey-type, bgs., works lb. .06¾ .07
Vandyke bbls. works.....lb. .09½ .12
Brucine, cns., 100-oz. lots.....oz. .20 - .25
Sulfate, NF, cns., 100-oz. lots..lb. .15 - .20
Buchu leaves, bls.....lb. .50 - —
Butadiene, refd., cyls., refy....lb. .23 - —
tanks, refy.....lb. .15 - —

Butane, indust., tanks, group 3 gal. .03½- —
N. Y. harbor.....gal. .08 - —
n-Butyl acetate, ferment., dms., c.l., frt. alld lb. .15 - —
l.c.l., same basis lb. .16 - —
tanks, same basis lb. .13 - —
n-synthetic, dms., c.l., dlvd. E. lb. .15 - —
l.c.l., same basis.....lb. .16 - —
tanks, same basis.....lb. .13 - —
sec-synthetic, dms., c.l., dlvd. E. lb. .12½- —
l.c.l., same basis.....lb. .13¼- —
tanks, same basis.....lb. .10¾- —
Alcohol (see Alcohol n-Butyl).
Aldehyde (see Butyraldehyde).
Chloride, dms., c.l., works.....lb. .37½- —
l.c.l. works lb. .38 - —
n-Ether, dms., c.l., works.....lb. .31½- —
l.c.l., works.....lb. .32 - —
tanks, works lb. .30 - —
Lactate dms., c.l. frt. alld. E. or Rockies lb. .35 - —
l.c.l., same basis lb. .36 - —
tanks same basis lb. .33 - —
Laurate, dms., works.....lb. .39 - —
Methacrylate normal, dms. less truckloads works lb. .70 - —
Oleate, refd., dms., l.c.l., works.lb. .32 - —
Phenylacetate dms lb 4.50 4.60
Phthalate (see Dibutyl phthalate).
Stearate, dms. l.c.l. frt. equald lb. .24 - .27
Butylamine (see mono-di-, and tri-).
6-tert-Butyl-m-cresol, dms., c.t., works lb. .49 - —
l.c.l., works.....lb. .50 - —
tanks, works.....lb. .48 - —
p-tert-Butylphenol, bgs., c.l., works. lb. .25½- —
l.c.l., works.....lb. .26½- —

Butyraldehyde, dms., c.l., dlvd lb. .21½- —
l.c.l. dlvd.....lb. .22½- —
tanks, dlvd.....lb. .19½- —
Butyric ether (see Ethyl butyrate).

C

Cacao butter (see Cocoa butter)
Cadmium iodide, 25-lb. fib. dms lb. 6.75 - 7.05
Metal ingots or sticks, cs., dlvd. lb. 1.70 - —
Caffeine, nat., USP, cryst., dms., 100-lb. lots or more lb. 3.15 - —
anhydrous, dms.....lb. 3.35 - —
syn., hydrous, dms., 100-lb. lots or more lb. 3.15 - —
anhyd., dms., 100 lbs. or more, lb. 3.35 - —
citrated, USP, dms., 100-lb. lots or more lb. 2.90 - —
Calamine, USP, dms.....lb. .34 - —
Calciferol, cryst., vials, 1-kilo lots, works gram. .75 - —
25 to 100 gram lots, works. gram. .80 - .90
in edible oil (see Viosterol).
Calcium p-aminosalicylate, fib., dms., 1,000 lb. lots, frt. adjusted.lb. 7.00 - —
smaller lots, same basis ...lb. 7.05 - 7.50
Arsenate, dealers, dms., c.l., whse. works, frt. alld. on 96 lbs or over lb. .09 - .10
l.c.l., same basis.....lb. .10 - —
Bromide, NF, jars.....lb. .90 - .97
Carbide, standard generator size, dms., c.l., dlvd ton.134.40 - —



FUNGAL AND BACTERIAL ACTION...

Do you have a product that needs positive protection against bacterial and fungal growth? It will pay you to look into the following advantages of using Heyden PARASEPTS to preserve the quality so essential to sales and profits:

- **High effectiveness against molds and bacteria.**
- **Extremely low toxicity confirmed by extensive tests.**
- **Non-irritating to the skin.**
- **Colorless, odorless, practically tasteless.**
- **Stable during heat sterilization.**

Research has shown that a combination of two or more Parasepts gives better protection than a single ester. There are five of them available to provide the right combination for your particular product. Write for a copy of the technical bulletin giving full information. Samples available on request.

METHYL PARASEPT
Purified
(Methylparaben U.S.P.)
ETHYL PARASEPT
Purified
PROPYL PARASEPT
Purified
(Propylparaben U.S.P.)
BUTYL PARASEPT
Purified
BENZYL PARASEPT
Purified

• • •

Technical Grades also available. 100, 50 and 25-lb. fiber drums.

FINE HEYDEN CHEMICALS

HEYDEN
CHEMICAL CORPORATION
342 Madison Avenue, New York 17, N.Y.
CHICAGO • CINCINNATI • DETROIT • PHILADELPHIA • PROVIDENCE • SAN FRANCISCO

Benzaldehyde • Benzoates • Benzyl Chloride • Chlorinated Aromatics • Creosotes • Formaldehyde • Formic Acid • Glycerophosphates • Guaiacols • Hexamethylenetetramine
Medicinal Colloids • Methylene Disalicylic Acid • Paraformaldehyde • Parahydroxybenzoates • Pentaerythritols • Propyl Gallate • Resorcinol • Salicylates • Salicylic Acid

Calcium Carbonate—4-Chloro-2-Aminotoluene

Calcium carbonate, nat., dry-grd., air floated, 99.5%—325 mesh, bgs., c.l., works ton. 7.50 - 10.00
chalk, whiting, 325 mesh, bgs., works ton 32.00 -34.00
water-grd., ½ to 0 microns, bgs c.l. works ton.30.00 - —
10 to 20 microns, bgs., c.l., works ton.17.00 -18.00
precip., dense, bgs., c.l., works. ton.30.00 -33.00
t.c.l., works ton.40.00 -48.00
medium, bgs., c.l., works ton.35.00 —
t.c.l., works ton.45.00 -50.00
surface treated, bgs., c.l., works ton.35.00 -50.00
t.c.l., works ton.45.00 -65.00
ultrafine, bgs., c.l., works. ton 110.00 160.00
t.c.l., works ton.120.00 -175.00
Chloride, cryst., purif., dms lb. .27 - —
flake, 77-80%, paper bgs., c.l., works, frt equald ton.27.00 - —
liquor, 40%, tanks, frt. equald. ton.11.35 - —
pellets, bgs., c.l., works ton.33.00 - —
powd., bgs., c.l., works ton.37.65 - —
solid, 73-75% dms c.l., frt equald ton.25.50 - —
t.c.l. works same basis ton.34.00 -71.00
USP, gran., dms lb. .40 - —
Chromate bgs. frt equald lb. 29½ - .30
Cyanide dms. dlvd E of Rockies. lb. .24 - .50
Gluconate, AA, bbls., dms lb. .70 - .72
USP, bbls., dms lb. .33 - .65
Glycerophosphate, NF, fib. dms. lb. 2.30 - 2.45
Hydride, dms., works lb. 2.15 - 3.00

Calcium hypochlorite, high test, cased (45 lbs.), dlvd E. of Rockies c.s. 22.60 -24.75
dms., 100-lb., same basis dm. 28.65 -32.50
Hypophosphite, dms., ton lots or less lb. .90 - .93
Iodide, jars lb. 4.52 - —
Lactate, USP, dms., 10,000-lb. lots or more, works lb. .40 - —
smaller lots, works lb. 41 - 48
Mandelate, USP, dms., works lb. 2.10 - 2.25
Naphthenate, liq., 4%, Ca, dms., frt. equald lb. .27¼ - —
Nitrate, fertilizer grade, bgs., c.l., Los Angeles ton.48.00 - —
tech., dms., works lb. .13 - —
d-Pantothenate, jars, 100-gram lots or more, frt. adjusted. gram .07½ - —
Para-aminosalicylate (see Calcium p-Aminosalicylate).
Phenolsulfonate, dms lb. .70 - —
Phosphate, dibasic, USP, bgs., c.l., 100 lbs 7.10 —
t.c.l 100 lbs 7.60 7.95
feed grade, 18½ to 21 units, bgs., c.l., works ton.74.00 -84.00
t.c.l., bgs., works ton.85.00 -95.00
monobasic, bgs., 10,000-lb. lots, works, frt. equald 100 lbs. 6.05 - —
smaller lots, same basis. 100 lbs. 6.55 - —
tribasic, precip., NF, bgs., c.l., works 100 lbs. 7.60 - —
t.c.l., works 100 lbs. 7.95 - —
Phytate, bgs., works lb. .37 - —
Resinate, precip., dms., frt. alld., works lb. .30 - —

Calcium silicate, hydrated, bgs., c.l., works lb .06 - —
t.c.l works lb .06½ - —
paint grade, fine, bgs., c.l., works ton.39.50 - —
t.c.l., ex whse ton.36.00 - —
medium, bgs., c.l., works. ton.27.00 - —
l.c.l., ex whse ton.44.00 - —
Stearate, ctns., c.l. lb. .35 - —
l.c.l. lb. .36 - .40
Sulfate (see Gypsum).
Calomel, USP, powd., dms lb. 5.42 - —
Camphene 46° m.p., dms., incl., c.l., works lb. .10½ - —
l.c.l., same basis lb. .12 - .20
tanks, same basis lb. .08 - —
Chlorinated, 67-69% (see Toxaphene).
Camphor monobromated, NF, dms., kgs lb 3.00 3.12
nat., USP, powd., cs., 100-lb. lots. lb. .60 - .65
tablets, 1-oz., ½-oz. cs lb. .75 - .80
syn., tech., 1 bbl. or more lb. .49 - —
USP, gran., powd., bbls, 2,000-lb. lots lb. .54 - —
1,000-lb. lots lb. .55 - —
smaller lots lb. .56 - —
tablets, tins, 2,000-lb. lots lb. .85 - —
1,000-lb. lots lb. .86 - —
smaller lots lb. .87 - —
Canada balsam (see Fir balsam).
Cantharides, Chinese, cs lb 2.00 2.05
powd. bxs. lb 2.25 2.30
Russian, bgs. lb 4.00 4.05
powd. bxs. lb 4.35 4.40
Capsicum (see Pepper, red).
Oleoresin NF from domestic pepper, dms. lb. 4.50 - 5.25
from African pepper, dms. lb. 4.35 - 5.00
Caraway seed, Dutch, bags lb. .17¾ - .18

Carbazole, 97%, bbls., ton lots, works lb. 1.05 - —
Carbinol, methyl isobutyl (see Methyl isobutyl carbinol).
Carbon dioxide, indust., wholesale, bulk, dlvd. metropolitan area. ton.73.00 -115.00
cyls., same basis lb. .08 - —
solid, same basis lb. .035 - .040
Disulfide, 55-gal. dms., c.l., works, frt. alld. to competitive points lb. .0750- —
l.c.l., same basis lb. .0850- —
5-gal dms., c.l., same basis lb. .1025- —
l.c.l., same basis lb. .1125- —
tanks, same basis lb. .0525- —
Tetrachloride, CP, dms., frt. alld. lb. .10½ - .12¼
tech., consumers, dms., c.l., E. Rockies, frt. alld lb. .10 - —
W. of Rockies, f.o.b., stockpoints lb. .10½ - —
l.c.l., E. of Rockies, frt. alld. alld lb. .11¾ - —
W. of Rockies, f.o.b. stockpoints lb. .12¼ - —
tanks, E. of Rockies, frt alld. lb. .085 - —
W. of Rockies, f.o.b. stockpoints lb. .09 - —
Carboxymethyl cellulose (see CMC).
Carbromal, NF, dms., 100-lb. lots, works lb 4.00 4.25
smaller lots, works lb 4.10 4.75
Cardamom fruit, selected, bleached, A, cs lb. 3.85 - —
medium, cs. lb. 3.85 - —
decorticated, Alleppey, cs lb. 1.85 - —
Guatemalan, cs. lb. 1.75 - —
green, Alleppey, bgs. lb. 1.85 - —
Ceylon, bgs. lb. 1.85 - —
seed (see Cardamom fruit decorticated).
Carmine, No. 40, NF, bulk, 100 lb lots or more, dlvd. lb. 7.80 - —
smaller lots, dlvd. lb. 7.95 - 8.45
Carotene, tech., 1,350,000 A units per gram, tins, works gram. .55 - —
in carrot oil, 5,000,000 to 8,000,000 A units per lb., dms., works. million units. .18 - —
microcrystalline in oil, 400,000 A units per gram, tins, works million units. .33 - —
Carvol, bots. lb. 4.75 - 9.65
Cascara sagrada bark, bulk lb. .30 - .31
Casein, dom., acid precip., standard, bgs., 10,000-lb. lots or more, shipt. point lb. .27 - .30
premium, bgs., 10,000-lb. lots or more, shipt. point lb. .35 - .40
imp., Argentine, acid-precip., grd., 100-lb. lots or more, duty paid lb. .23 - .23½
Cashewnut shell liquid, treated, dms., c.l., Newark, N. J lb. .22 - —
ton lots, same basis lb. .23 - —
dm. lots, same basis lb. .25 - —
Cassia, Batavia, cuttings, bls lb. .16½ - —
longstick, cracked, bls lb. .19 - —
shortstick, cracked, bls lb. .18 - —
Saigon, broken, bls. lb. Nominal
medium, reconditioned, bls lb. .95 - —
thin, bls lb. 1.00 - —
Castor beans, bgs., f.o.b. Brazilian ports long ton.100.00 - —
Oil (see Oil, castor).
Pomace, bgs., c.l., works ton.27.00 Nom.
Castoreum, syn., cns lb. 9.00 - —
natural, cns lb. 5.90 -30.00
Catechol, CP, cryst., fib. dms., works lb 2.17½ —
resub., dms., works lb. 4.29½ —
Catnip leaves, Southern, bls lb. .75 - —
Celery seed, French, bgs., shipt lb. .50 - —
Indian, bgs. lb. .13½ - .14
Celluloid scrap (see Pyroxylin scrap).
Cellulose acetate, flake, powd., ctns., bgs., 100-lb. lots or more, dlvd. E lb. .35 - .46
Butyrate, powd., 17% butyryl content, bgs., dlvd. E lb. .545 - .555
27% butyryl content, bgs., dlvd. E lb. .595 - .605
38% butyryl content, bgs., dlvd. E lb. .545 - .555
50% butyryl content, bgs., dlvd. E. lb. .585 - .595
half-second, bgs., dlvd. E lb. .545 - .555
Cerium hydrate, 74% CeO_2, f.o. dms., 100-lb lots or more lb. 1.44 - —
77% CeO_2, fib. dms., 100-lb. lots or more lb. 1.74 - —
Oxalate, NF, bbls., bgs., works lb. 1.05 - —
Oxide, optical grade, bgs., 50-lb. lots or more, works lb. 1.85 - 1.88
smaller lots, works lb. 2.03 - 2.23
Chalk (see Calcium carbonate).
Chamomile flowers, Hungarian style, cs lb. .75 - .80
Roman, cs lb. 1.00 - 1.15
Charcoal, activated, NF, fib. dms., c.l., works lb. .25 - .32
5-ton lots, works lb. .26½ - .32½
smaller lots, works lb. .27 - .50
Bone (see Black, bone).
Hardwood, briquets, bgs., c.l., works ton.77.00 -88.00
granular, bgs., works ton.77.00 —
bulk, c.l., works ton.70.40 - —
Pinewood, gran., powd., bgs., c.l., works, South ton.55.00 - —
t.c.l., works, South ton.55.00 -65.00
lump bgs., c.l., works, South ton.51.50 - —
t.c.l., works, South ton.61.50 -69.00
bulk, c.l., works, South ton.36.00 - —
Chestnut extract, liquid, 25% tannin, bbls., c.l., works lb. .04¾ - —
l.c.l., works lb. .0510- —
tanks, works lb. .04 - —
powd., 60% tannin, bgs., extra, c.l., works lb. .1032- —
l.c.l., works lb. .1102- —
Chloral, tech., 94% min., dms., c.l. works lb. .23 - —
l.c.l., works lb. .24 - —
tanks, works lb. .21 - —
Hydrate, USP, 40-lb. jars, 1,000-lb. lots lb. 1.30 - —
500-lb. lots lb. 1.33 - —
100-lb. lots or less lb. 1.35 - —
Chlordan, agricultural, dms., c.l., frt. alld lb. .65 - —
l.c.l., 5,000 to 10,000 lb. lots, frt. alld lb. .66 - —
clarified, dms., c.l., frt. alld lb. .75 - —
l.c.l., 5,000 to 10,000 lb. lots, frt. alld lb. .76 - —
Chloramine T, NF, bbls., works lb. .75 - 1.00
Chlorinated paraffin, 42%, dms., c.l., frt. alld lb. .15¼ - —
l.c.l., same basis lb. .16½ - —
70%, dms., c.l., same basis lb. .18 - —
l.c.l., same basis lb. .19 - —
Rubber, 5, 10, 20 cps., ctns., c.l., works lb. .55 - —
l.c.l., works lb. .56 - —
125, 1,000 cps., ctns., c.l., works lb. .65 - —
l.c.l., works lb. .66 - —
Chlorine, liquid, cyls., c.l., works, frt. equald lb. .09½ - —
l.c.l., Metropolitan area lb. .11 - .12¼
tanks, single units, works, frt. equald 100 lbs. 2.93 - —
multiple units, 5 cars, works, frt. equald 100 lbs. 3.80 - 3.83
3 cars, same basis 100 lbs. 3.80 - —
2 cars, same basis 100 lbs. 5.00 - —
1 car, same basis 100 lbs. 6.00 - —
4-Chloro-2-aminotoluene, fused, bbls. lb. 1.45 - —

FOR THE CHEMICAL AND GENERAL INDUSTRY

Caffeine—Natural
Caffeine—Synthetic
Cesium Salts
Cocaine and Salts
Coumarin
Theobromine
Theobromine—Sod. Sal.
Theophylline
Vanillin—Eugenol

Lithium Products
Lithium Benzoate
Bromide
Carbonate
Chloride
Citrate
Fluoride
Hydride
Hydroxide
Metal & Metal Alloys
Salicylate
Stearate
Sulphate

Rare Earth Products
Cerium Carbonate
Chloride
Hydrate
Nitrate
Oxide
Rare Earth Carbonate
Chloride
Fluoride
Nitrate
Lanthanum Salts
Neodymium Salts
Thorium Nitrate

Aromatics
Ionones
Methyl Ionones
Isolates
Synthetics

Synthetic Detergents
Maypon 4 C
Maypon K
Maypon M
Maypon OW

FOR THE TEXTILE INDUSTRY

MAYPON K
PROTEIN – FATTY ACID – CONDENSATE
An effective anionic detergent in scouring, bleaching, and dyeing.
A powerful emulsifier for mineral oils.

FOR THE COSMETIC INDUSTRY

MAYPON 4 C
PROTEIN – FATTY ACID – CONDENSATE
Anionic sudsing agent, detergent, and emulsifier in the production of
SHAMPOOS • PERMANENT COLD WAVE SOLUTIONS • LIQUID BATH PREPARATIONS COSMETIC CREAMS
In all concentrations, Maypon 4 C satisfies the Draize Woodward eye irritation test.

MAYWOOD CHEMICAL WORKS
MAYWOOD, NEW JERSEY
ESTABLISHED 1895
MAYPON

m-Chloroaniline, dms., c.t., frt. equald. lb. .75 - —
l.c.l., same basis lb. .80 - —
o-Chloroaniline, dms., c.l., works, frt. equald. lb. .70 - —
l.c.l., same basis lb. .72 - —
p-Chloroaniline, dms., c.l., works, frt. equald. lb. .75 - —
o-Chlorobenzaldehyde, dms., works. lb. 1.20 - —
p-Chlorobenzaldehyde, dms., works. lb. 1.33 - —
Chloroform, tech., dms., c.l., dlvd. E lb. .18 - —
l.c.l., same basis lb. .19 - —
tanks, same basis lb. .17 - —
USP, dms lb. .30 - —
3-Chloro-4-nitroaniline, paste, 100% basis lb. .81 - —
4-Chloro-2-nitroaniline, dms., dlvd. lb. .80 - —
o-Chlorophenol, dms., c.l., frt. equald. lb. .34½- —
l.c.l., same basis lb. .35½- —
p-Chlorophenol, dms., c.l., frt. equald. lb. .34½- —
l.c.l., same basis lb. .35½- —
Chlorophyll, oil soluble, 4%, not fixed, pails, tins, works lb. 4.25 - —
copper fixed 6½% tins, pails, works lb 4.25 —
Sodium-copper, aqueous soln., 4%, dms., pails, works lb. 3.75 - —
8%, pails, dms., works lb. 4.00 - 4.80
14%, dms., works lb. 6.90 - —
conc., dom., 50%, dms., works, 100% basis lb.42.00 - —
75%, dms., works, 100% basis lb.45.00 - —
90%-100%, dms., works, 100% basis lb.45.00 - —
imp., 60%, tins, 100% basis. lb.58.00 - —
90%, tins, 100% basis lb.58.00 - —
75%, tins, 100% basis lb.58.00 - —
Chloropicrin, coml., bots. lb. 1.50 - —
cyls. 180 lbs frt alld lb 95 - —
100 lbs., same basis lb. .97 - —
35 lbs. same basis lb .22 —
Cholesterol, USP, fib. dms., 100-lb. lots lb. 6.85 - 9.50
Choline bitartrate fib. dms., frt. adjusted lb. 1.50 1.75
Chloride fib dms. frt adjusted. lb. 1.50 1.75
Dihydrogen citrate, fib. dms., frt. adjusted lb. 1.50 1.75
Chromium acetate, soln., 7½%, bbls., works lb. .08½- —
cbys works lb. .10¼ —
Fluoride, bbls., works lb. .51 - .52
Green (see Green, chrome).
Oxide (see Green chromium oxide).
Trioxide NF bots lb .82 .89
Yellow. (see Yellow chrome)
Cinchona bark. NF. red. broken, bgs lb. .35 - .40
yellow, broken, bgs lb. .35 - .40
Cinchonidine. cryst. cns. 100-oz. lots. oz. .65 - —
Sulfate cns., 100-oz. lots oz. .37 - .40¼
Cinchonine cryst. cns., 100-oz. lots. oz. .52 - .57
Sulfate, NF, cns., 100-oz. lots oz. .27½- .30½
Cinchophen NF. heavy density, dms. frt. adjusted lb. 3.70 4.05
standard density. dms., same basis lb. 3.50 3.85
Cinchophen-sodium. dms., frt. adjusted lb. 4.50 4.85
Cinnamic alcohol (see Alcohol cinnamic).
Cinnamon, Ceylon, No. 2 lb. .59 - .60
"0000," bgs., shipt lb. Nominal
Citral, bots., cns lb. 4.00 - 4.50
Citronellal, bots., dms lb. 1.85 - 2.50
Citronellol, bots., dms lb. 2.70 - 3.25
Civet, artif., bots lb.13.75 -15.00
nat., bots oz. 7.50 -15.00
Clay, ball, dom., airfloated, bgs., c.l., Tenn. ton.19.50 - —
crushed, shed moisture, bulk, c.l., Tenn ton.10.00 - —
purif., bgs., c.l., Tenn. ton.20.50 - —
imp., airfloated, bgs., c.l., Atlantic port, long ton.42.00 -45.00
lump, bulk, Atl. port ton.27.00 -30.20
China, dom., dry-grd., airfloat, 99%, 325 mesh, bgs., c.l., Georgia, works ton.10.00 - —
l.c.l., Georgia, works. ton.15.50 - —
300 mesh, bgs., c.l., Georgia, works ton.13.50 -14.50
l.c.l. ton.35.00 -36.00
imp., white, lump, bulk, c.l., ex dock, Phila., Portland, Me. gross ton.20.00 -35.00
powd., bgs., c.l., ex dock net ton.50.00 —
l.c.l., ex whse net ton.60.00 -65.00
Clove, Madagascar, bgs lb. .63 - —
Zanzibar, bls lb. .75 - —
CMC, purif., high vis. (see Gum Cellulose), standard, low or med. vis., bgs., 23,000 lbs. or over, works, frt. alld lb. .55 - —
smaller lots, same basis lb. .57 - —
80% purity, low or med. vis., bgs., or fib. dms., 23,000 lbs., dlvd. E., 100% basis lb. .39 - —
less than 23,000 lbs., dlvd. E., 100% basis lb. .41 - —
65% purity, bgs., or fib. dms., c.l., dlvd. E., 100% basis, lb. .39 - —
l.c.l., dlvd. E., 100% basis. lb. .41 - —
CMC prices W. of the Rockies are 2c. per lb. lower, and are on a works basis.
Coaltar, crude, resale dms., c.l., ex-whse. gal. .275 - .30
l.c.l., ex-whse gal. .285 - .32
tanks, ex works gal. .154 - .165
refined, resale, dms., c.l., ex-whse. gal. .2850- .3125
l.c.l., ex-whse gal. .2950- .3245
tanks, ex-whse gal. .1650- .1760
Cobalt acetate, 23.7%, bbls., dlvd. lb. 1.37 - 1.30
Carbonate, 46% powd., bgs., dlvd. lb. 2.15 - —
Chloride, 24.2% Co., kgs., dlvd., lb. 1.20 - —
Hydrate, 60-61% Co, bbls., dlvd. lb. 2.72 - —
Linoleate, fused, 8½% Co., dms. lb. .75¾- —
liquid, 6% Co., dms lb. .61 - —
Metal, 97-99% kgs., ex whse lb. 2.60 - —
Naphthenate, liq., 6% Co., dms., dlvd. lb. .48¼- —
Nitrate, 20.1% Co, bbls., dlvd. lb. 1.00 - —
Phosphate, powdered, 32.1% Co., kgs., dlvd. lb. 1.69 - —
Oxide, black, 72½-73½% Co., kgs. lb. 1.96 - —
70-71% Co., kgs lb. 1.90 - —
Resinate, fused, 3% Co., dms lb. .29¾- —
Sulfate, cryst. 21% Co., dms., dlvd. lb. .89 - —
monohydrated, 33% Co., dms. dlvd. lb. 1.40 - —
Tallate, 6% Co., dms., dlvd. lb. .43¾- —
Cocaine, USP, cns., 10-oz. lots oz.17.80 - —
Hydrochloride, cns., 100-oz. lots. oz.13.75 - —
Cochineal, USP, gray, bgs lb. 1.10 - 1.35
Cocillana bark, bgs lb. .40 - .60
Cocoa butter, bgs lb. .85 - —

Codeine, NF, cns., 100-oz. lots oz.13.25 - —
Hydrochloride, cns., 100-oz. lots oz.11.75 -
Phosphate, USP, cns., 100-oz. lots. oz.10.25 - —
Sulfate, USP, cns., 100-oz. lots oz.10.75 - —
Codliver oil (see Oil, codliver).
Cohosh root, black, bls lb. .20 - .22
blue, bls lb. .20 - .22
Colchicine, USP, bots., cns. oz.33.50 -40.00
Colchicum root, bls lb. .45 - .55
seed, bgs lb. .80 1.10
Collodion USP dms lb. .32½ —
flexible, USP. dms lb. .34 —
Colocynth, pulp, bls lb. .25 - .30
Colombo root, bls lb. .20 Nom.
Condurango bark, bales lb. .45 - .50
Copaiba balsam, cns., dms lb. .90 - 1.20
Copper acetate, bbls., c.l., works. lb. .40 -
l.c.l., works lb. .41 -
Carbonate, 55%, bgs., works lb. .263 - .273
Chloride, anhyd., bbls., works lb. .39 - —
crystals, bbls., works lb. .26¼- —
Cyanide, tech., bbls., 1,000-lb. lots or more lb. .619 - —
smaller lots lb. .639 - —
Gluconate, cns., dms lb. 3.00 3.24
Hydrate, dms., frt. alld. E. Miss lb. .40¼- .40¾
Metal, electrolytic, dlvd., Valley basis lb. .30 - —
Naphthenate, liquid, 8% Cu., dms., frt. alld lb. .23½- —
Nitrate, tech., cryst., bbls., works. lb. .33¼- —
Oleate, solid, 9% Cu, dms., works lb. .45 - —
Oxide, black, bbls., works lb. .39 - .44½
red, USN type I, 97%, bbls., works lb. .48½- .58
type II, 90%, bbls., works lb. .41 - .46½
Quinolinolate, fib. dms lb. 4.25 - 4.50

Copper resinate, precip., dms., frt. alld. lb. .30 - —
Sulfate, CP, gran., bbls., works lb. .1715- —
cryst., 99%, bgs., c.l., works. 100 lbs.10.35 -
l.c.l., works 100 lbs.10.60 -11.35
monohydrated, 35% dms., c.l., works 100 lbs.17.10 -17.85
tribasic, dealers, bgs., c.l., works, frt. alld 100 lbs.22.50 - —
l.c.l., works 100 lbs.23.00 -24.50
Undecylenate, dms. lb. 2.90 - 3.00
Copperas (see Ferrous sulfate).
Copra, Atl., Gulf ports, c.i.f. ton.167.50 - —
Pacific ports, c.i.f. ton.162.50 - —
Coriander seed, Moroccan, bgs. lb. .11 - .11½
Roumanian, bgs. lb. .08 - .08½
Corn sugar, tanners, chipped, paper bgs. c.l. 60,000 lbs. min. 100 lbs 7.31 - —
l.c.l. 100 lbs. 7.46 - —
Syrup, 42° dms., c.l. 100 lbs 7.32 - —
l.c.l. 100 lbs. 7.46 - —
Corrosive sublimate (see Mercuric Chloride).
Cortisone acetate, NNR, bulk gram. 3.75 - 4.00
Cottonseed meal, exp. 41%, sacked, Memphis ton.70.00 - —
solvent, same basis ton.65.00 - —
Coumarin cryst. NF cns. lb 2.94 3.15
powd., cns. lb. 3.20 - 3.25
Cramp bark, NF, bls lb. .85 .90
Cream of tartar (see Potassium bitartrate).
Creosote carbonate, NF, bots. cbys. lb. 3.08 - 3.26
Coaltar, crude, tanks, works, frt. adjusted gal. .22 —
solution, 80%, tanks, works. gal. .2068- —
refd., dms., c.l., works gal. .3850- —
l.c.l. same basis gal. .4510- —
tanks, same basis gal. .2970- —

m-Chloroaniline—Cryolite

Creosote, wood, beechwood, cbys, dms. lb. 1.60 - 1.65
hardwood, NF, bots., cbys. lb. 1.30 - 1.35
pinewood, dms., works gal. .42½- .50½
Cresol, tech., 50% below 204°C., dry above 207°C., wide distillation range, non-ret. dms. c.l., frt equald lb. .133 - —
l.c.l., same basis lb. .136 - —
tanks, same basis lb. .12 - —
USP, non-ret. dms., c.l., same basis lb. 1.43 - —
l.c.l., same basis lb. .146 - —
ret. dms., c.l., same basis lb. .140 - —
l.c.l., same basis lb. .145 - —
tanks, same basis lb. .130 - —
m-Cresol, 95-98%, dms., c.l., works. lb. .60 - —
l.c.l., works lb. .61 - —
o-Cresol, m.p. over 30°C., ret. dms., c.l., frt. equald. lb. .173 - —
l.c.l., same basis lb. .176 - —
tanks, same basis lb. .16 - —
29°C., ret. dms., c.l., frt. equald. lb. .16 - —
l.c.l., same basis lb. .16½- —
tanks, same basis lb. .15 - —
25-29°C., dms., c.l., frt. equald. lb. .153 - —
l.c.l., same basis lb. .156 - —
tanks, same basis lb. .14 - —
p-Cresol, 98%, dms., c.l., dlvd. lb. .49 - —
l.c.l., dlvd lb. .51 -
Methyl ether, cns lb. 1.90 - 2.50
Crotonaldehyde, 91-93%, dms., l.c.l., works lb. .24¼- .26
Cryolite, nat., indust., bgs., c.l., works. 100 lbs.13.00 - —
l.c.l., works 100 lbs.14.25 - —
insecticide, dealers, bgs., c.l., dlvd. 100 lbs.14.00 - —
l.c.l., dlvd. 100 lbs.15.00 - —

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Cube Root—2,4-Dinitroaniline

Cube root, powd., 5% rotenone, bgs., works lb. .25 - —
Cubeb berries, XX, NF, bgs lb. .50 .51
powd., cs. lb. .58 .59
Cumene, dms., c.l., works lb. .12 —
l.c.l., works lb. .14 —
tanks, works lb. .11 —
Cumin seed, Iranian, bgs. lb. .13¼- —
Moroccan, bgs. lb.) - —
Turkish, bgs. lb. .13¼- —
Cutch extract, 55% tannin, bgs., ex dock, duty extra lb. .08½ —
Cyanamide fertilizer mixing grades, 20.6% N, gran., bgs., Niagara Falls, Ont., contract ton.55.00 - —
pulv., 21% N, bgs., works unit-ton. 2.75 - —
Cyanamide, industrial grade, bgs., c.l., works ton.75.00 - —
l.c.l., bgs., works ton.86.00 - —
6-16 mesh, dms., c.l., works ton.120.00 - —
l.c.l., dms., works ton.140.00 - —
Cyclohexane, tech., dms., c.l., works, gal. .70 - —
l.c.l., works gal. .72 - —
tanks works gal. .55 - —
Cyclohexanol, tech., dms., c.l., works, frt. alld., E lb. .28½- .37¼
l.c.l., works, same basis lb. .30 - .38¼
tanks, works, same basis lb. .27 - .36¼
Cyclohexanone, tech., dms., c.l., works lb. .33½- —
l.c.l., works lb. .35 - —
tanks, works lb. .32 - —
Cyclohexylamine, dms., c.l., works, lb. .46½- —
l.c.l., works lb. .47½- —
tanks, works lb. .45 - —

Cyclopropane, CP, 2-lb. cyls., works, cyl.48.00 - —
6 oz. cyls., works cyl.12.00 - —
USP, hospitals, cyls., 40-gal. lots gal. .56 - —
100-gal. lots gal. .37 - —
200-gal. lots gal. .36 - —

D

2,4-D, bbls., c.l., works, frt. equald, lb. .43½- —
l.c.l., same basis lb. .494 - —
Butyl ester, dms., c.l., works lb. .46½- —
l.c.l., same basis lb. .51½- .56½
Isopropyl ester, dms., c.l., works, lb. .46½- —
l.c.l., works lb. .51½- .56½
Dandelion root, bls lb. .35 .40
DDD, tech., flake, grd., fib. bgs., c.l., works lb. .45 - —
l.c.l., works lb. .46 - —
DDT powder, bgs., c.l., works, frt. equald lb. .27 - —
smaller lots, same basis lb. .29 - —
fib. dms., c.l., same basis lb. .28 - —
smaller lots, same basis lb. .30 - —
1-Decanol, tech., dms., c.l., dlvd. lb. .35 - —
l.c.l., dlvd lb. .37 - —
tanks, dlvd lb. .32½- —
Deertongue leaves, bls lb. .45 - —
Defluorinated phosphate, 13% P, paper bgs., works ton.49.50 - —
14½% P, paper bgs, works ton.48.00 - —
17% P, paper bgs., works ton.56.00 - —
18% P, paper bgs., works ton.64.35 - —
Degras, common, bbls lb. .10 - .12
neutral, less 2% fa., bbls lb. .24 - .25
over 2% fa., bbls lb. .23 - .24

Derris root, 5% rotenone powd., bbls lb. .25 Nom.
d-Desoxyephedrine hydrochloride bots. lb.25.00 - —
dl, bots. lb. 6.50 - —
Dextrin, corn, gum, paper bgs., c.l., 100 lbs. 8.95 - —
l.c.l. 100 lbs. 9.10 - —
canary paper bgs, c.l. 100 lbs. 8.69 - —
l.c.l. 100 lbs. 8.84 - —
dark, paper bgs., c.l. 100 lbs. 8.79 - —
l.c.l. 100 lbs. 8.94 - —
white, paper bgs., c.l. 100 lbs. 8.53 - —
l.c.l. 100 lbs. 8.68 - —
Corn dextrin in cotton bgs. 25c. per 100 lbs. higher.
Potato, bgs. lb. .10¼- .11
Dextrose, USP, dms. lb. .17¾- —
Diacetone (see Alcohol, diacetone).
Diacetyl, flavor grade, bots lb. 4.50 - 5.50
Di-sec-amyl phenol, dms., c.l., works lb. .30¼- —
l.c.l., works lb. .33¼- —
tanks, works lb. .28¼- —
Di-tert-amyl phenol, dms., c.l., works lb. .30¼- —
l.c.l., works lb. .33¼- —
tanks, works lb. .28¼- —
o-Dianisidine fib. dms. lb. 2.00 - —
Dibenzyl sebacate, dms., c.l., works, lb. .89¾- .90
l.c.l., same basis lb. .90¼- .91
tanks, same basis lb. .86 - —
p-Dibromobenzene, bgs., 500-lb. lots, lb. .55 - —
Dibutyl phthalate, dms., c.l., dlvd. E lb. .32 - —
l.c.l., same basis lb. .33 - —
tanks, same basis lb. .30 - —
Sebacate, dms., c.l., works lb. .62 - —
l.c.l., works lb. .68½- .69
tanks, works, dlvd lb. .66 - .66¼
Tartrate, dms., works, frt. alld lb. .64 - .71

Dibutylamine, dms., c.l., dlvd lb. .55 - —
l.c.l., same basis lb. .56 - —
tanks, same basis lb. .53 - —
Di-tert-butyl-p-cresol, dms., c.l., works lb. .91 - —
l.c.l., works lb. .95 - —
Dicapryl phthalate, dms., c.l., dlvd., works lb. .30½- .31½
l.c.l., same basis lb. .31½- .32¼
tanks, same basis lb. .29½- —
Sebacate, dms., c.l., works lb. .63 - —
l.c.l., works lb. .63½- .64
tanks, works lb. .61 - —
2,5-Dichloroaniline dms., works lb. .75 .83
o-Dichlorobenzene, dms., c.l., frt. alld. E lb. .12¼- —
l.c.l., same basis lb. .13¼- —
tanks, same basis lb. .10¾- —
p-Dichlorobenzene, dms., c.l., frt. alld. E lb. .16½- —
l.c.l., same basis lb. .19 - —
Dichlorodiphenyltrichloroethane (see DDT).
Dichloropentanes, dms., c.l., works. lb. .05 - —
l.c.l., works lb. .05¾- —
tanks, works lb. .04¼- —
Dicyclohexylamine, dms., c.l., works. lb. .51 —
l.c.l., works lb. .51¾- —
tanks, works lb. .49¾ —
Dicyclohexyl phthalate, fib. dms., c.l., frt. alld., works lb. .58¼- .59
l.c.l., same basis lb. .59¼- .60
Dieldrin, dms., frt. alld lb. 1.80 - —
l.c.l., frt. alld lb. 1.85 - —
Diethanolamine, dms., c.l., dlvd. E. lb. .26¼- —
l.c.l., same basis lb. .27¼- —
tanks, same basis lb. .24½- —
Diethyl carbonate, dms., c.l., frt. alld lb. .47 - —
l.c.l., same basis lb. .48 - —
tanks same basis lb. .45 - —
Ethanolamines, dms., c.l., dlvd. lb. .67½- —
l.c.l., dlvd lb. .69½- —
tanks, dlvd lb. .65½- —
Oxalate, dms., c.l., frt. alld. lb. .42 - —
l.c.l., same basis lb. .43 - —
tanks, same basis lb. .40 - —
Phthalate, dms., c.l., dlvd. lb. .27 - —
l.c.l., dlvd. lb. .28 - —
tanks, dlvd. lb. .25 - —
Sulfate, dms., c.l., works lb. .18¾- —
l.c.l. works lb. .19¼- —
tanks, works lb. .17 - —
Diethylamine, dms., c.l., dlvd. E lb. .50½- —
l.c.l., same basis lb. .51½- —
tanks, same basis lb. .48½- —
N,N-Diethylaniline, dms., c.l., frt. alld lb. .51 - —
l.c.l., same basis lb. .52 - —
tanks, same basis lb. .50 - —
Di-2-ethylhexyl adipate (see Dioctyl adipate).
Phthalate (see Dioctyl phthalate).
Diethylene glycol, dms., c.l., dlvd. E. lb. .16½- —
l.c.l., same basis lb. .17½- —
tanks, same basis lb. .14¾- —
Borborate, dms., l.c.l. lb. .31 - —
Diethyl ether, dms., c.l., works, lb. .46¼- —
l.c.l., works lb. .47 - —
Monobutyl ether, dms., c.l., works lb. .23¾- —
l.c.l., works lb. .29¼- —
tanks, works lb. .27 - —
Acetate, dms., c.l., works lb. .30 - —
l.c.l., works lb. .30½- —
tanks, dlvd. E lb. .28¼- —
Monoethyl ether, dms., c.l., dlvd. lb. .20¾- —
l.c.l., dlvd lb. .21½- —
tanks, dlvd lb. .19½- —
Acetate, dms., c.l., works lb. .26¾- —
l.c.l., works lb. .27¼- —
tanks, dlvd. E lb. .25¼- —
Monomethyl ether, dms., c.l., works lb. .20 - —
l.c.l., works lb. .21 - —
tanks, works lb. .18½- —
Diethylenetriamine dms., c.l., dlvd E. lb. .43 - —
l.c.l., same basis lb. .44 - —
tanks, same basis lb. 41¼- —
Diethylstilbestrol, USP, bots., 10-kilo lots kilo.100.00 - —
1-kilo lot kilo.110.00 - —
Digitalis leaves, USP, dom., dms., lb. 90 - 1.10
Digitoxin, USP, bots gram. 5.50 - 6.00
Diglycol laurate, dms lb. .35 - .38
Oleate, dms lb. .31 - —
Stearate, dms lb. .26 - .27
Dihexyl sebacate, dms., c.l., works lb. .64 - —
l.c.l., works lb. .64½- .65
tanks, works lb. .62 - —
Dihydrazine sulfate, dms., works. lb. 1.10 - 1.25
Dihydrostreptomycin hydrochloride, bulk gram. .17 - —
Sulfate, bulk gram. .17 - —
2,2'-Dihydroxy-5,5'-dichloro-diphenyl-methane, pure, dms lb. 2.80 - 3.00
tech., dms. lb. 1.04 1.14
Di-isobutyl ketone, dms., c.l., dlvd. lb. .13½- —
l.c.l., dlvd lb. .16½- —
tanks, same basis lb. .13½- —
Phthalate, dms., c.l., dlvd. E lb. .31 - —
l.c.l., same basis lb. .32 - —
tanks, same basis lb. .29 - —
Di-isobutylene, dms., c.l., works lb. .10 - —
l.c.l., works lb. .11 - —
tanks, works lb. .08 - —
Di-iso-octyl phthalate, dms., c.l., dlvd. lb. .32½- —
l.c.l., same basis lb. .33½- —
tanks, same basis lb. .30½- —
Sebacate, dms., c.l., works, lb. .63 - —
l.c.l., works lb. .63½- .64
tanks, works, dlvd lb. .61 - .61¼
Di-isopropylamine, dms., c.l., dlvd. E. of Rockies lb. .50 - —
l.c.l., same basis lb. .51 - —
tanks, same basis lb. .48 - —
Dillseed, dewhiskered, bgs. lb. .13 - —
nat., bgs. lb. .12 - —
Dimethyl anthranilate, cms lb. 5.25 - 5.75
Chloroacetal, dms., c.l., works lb. .45 - —
l.c.l., works lb. .50 - —
tanks, works lb. .40 - —
Ethanolamines, annyd., dms., c.l., dlvd. lb. 1.43 - —
l.c.l., dlvd lb. 1.45 - —
tanks, dlvd lb. 1.40 - —
70%, dms., c.l., dlvd., 100% basis lb. .55 - —
tanks, dlvd., 100% basis lb. .53 - —
Hydroquinone, dms lb. 1.70 - 2.75
Phthalate, dms., c.l., works lb. .29½- —
lb. .29½- —
l.c.l., works lb. .30½- —
tanks, dlvd. lb. .27½- —
Sebacate, dms., c.l., works lb. 1.27 - —
l.c.l., works lb. 1.28 - —
tanks, works lb. 1.25 - —
Sulfate, 55-gal., ret. dms., c.l., works lb. .15 - —
l.c.l. works lb. .16 - —
10-gal. ret. dms., l.c.l., works, lb. .16½- —
Dimethylamine, 25-40%, dms., c.l., frt. equald lb. .39 - —
l.c.l., frt. equald lb. .39½- —
tanks, frt. equald lb. .33 - —
N,N-Dimethylaniline, dms., c.l., frt. alld lb. .29½- —
l.c.l., frt. alld lb. .30½- —
tanks, frt. alld lb. .28½- —
N,N-Dimethylformamide dms., works. lb. .34 - .36
tanks, works lb. .33 - —
2,4-Dinitroaniline, dms., frt. equald lb. .57 - —

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dibutyl phthalate

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m-Dinitrobenzene, 85°C., dms....lb. .20 - —
89°C., dms....lb. .22 - —
2,4-Dinitrochlorobenzene, dms., c.l., frt. alld. E lb. .15¼- —
l.c.l., frt. alld. E....lb. .15¾- —
tanks, frt. alld., E....lb. .15 - —
2,4-Dinitrophenol, bbls....lb. .37 - —
2,4-Dinitrotoluene, oily, dms....lb. .10 - —
refd., 68°C., dms....lb. .21 - —
Dioctyl adipate, dms., c.l., works, lb. .45½- —
l.c.l., works....lb. .46½- —
tanks, works....lb. .43½- —
Phthalate, dms., c.l., frt. alld..lb. .32½- —
l.c.l., frt. alld....lb. .33½- —
tanks, frt. alld....lb. .30½- —
Sebacate, dms., c.l., works, lb. .63 - —
l.c.l., works....lb. .63½- .64
tanks, works, dlvd....lb. .61 - .61½
Di-o-tolyguanidine, dms., ton lots, dlvd. lb. .57 —
smaller lots, dlvd....lb. .58 - —
1,4-Dioxane, dms., c.l., works...lb. .28¾- —
l.c.l same basis....lb .29¼- —
tanks same basis....lb. .27 - —
Dip oil (see Tar acid oil).
Dipentaerythritol, bgs., l.c.l., works. .35 - —
Dipentene, dest-dist., dms., c.l., works gal. .48½- —
l.c.l., works....gal. .53½- —
ex-whse....gal. .70 - —
steam-dist., dms., c.l., works, South. gal. .64 - —
dlvd. N. Y....gal. .82 - —
tanks, works, South....gal. .50 - —
Diphenyl, bbls., c.l., works....lb. .15 - —
l.c.l., works....lb. .16 - —
Diphenyl in bags ¼c. lower.
Oxide, perfume grade, cns....lb. .54 - .61
Phthalate, dms., c.l., works...lb. .51¾- —
l.c.l., works....lb. .53¾- —
Diphenylguanidine dms., ton lots lb. .48 - —
smaller lots....lb. .49 .50
Diphenylhydantoin-sodium, USP, dms lb. 5.30 5.60
Dipropylene glycol, dms., c.l., frt. alld. lb. .16½- —
l.c.l., same basis....lb. .17½- —
tanks, same basis....lb. .14¾- —
Monomethyl ether, dms., c.l., dlvd. E lb. .20 - —
l.c.l., same basis....lb. .21 - —
tanks, same basis....lb. .18¼- —
Divi-divi, 45% tannin, bgs., bls., c.l., U.S ports, exdock ton. 70.00 72.00
Divinylbenzene, 20-25%, dms., c.l., works lb. .20 - —
l.c.l. works lb .21 - —
tanks, works....lb. .19 - —
40-50%, dms., c.l., works, 100% basis lb. 1.00 - —
l.c.l., works, 100% basis lb. 1.15 - —
Dodecylbenzene, dms., c.l., frt. equald lb. .14½- —
l.c.l. same basis lb. .15½- —
tanks, same basis lb. .12½- —

Dyes, coaltar, certified colors for food, drugs and cosmetics, 5-lb. and 1-lb. lots dlvd:—
Blue, FD & C, No. 1, cns....lb.17.00 -17.60
No. 2, cns....lb.17.00 -17.60
Green, FD & C, No. 1, cns....lb.17.00 -17.60
No. 2, cns....lb.22.20 -22.85
No. 3, cns....lb.35.25 -35.90
Orange, FD & C, No. 1, cns....lb. 3.65 - 3.75
No. 2, cns....lb. 4.65 - 4.75
Red, FD & C, No. 1, cns....lb. 7.55 - 7.85
No. 2, cns....lb. 4.00 - 4.10
No. 3, cns....lb.22.20 -22.85
No. 4, cns....lb. 7.20 - 7.50
No. 32, cns....lb. 5.30 - 5.40
Violet, FD & C, No. 1, cns....lb.17.00 -17.60
Yellow, FD & C, No. 1, cns....lb.10.50 -11.05
No. 3, cns....lb. 3.30 - 3.40
No. 4, cns....lb. 3.30 - 3.40
No. 5, cns....lb. 4.00 - 4.10
No. 6, cns....lb. 4.00 - 4.10

Dyes, coaltar, certified colors for drugs and cosmetics, 1-lb. lots, works, 25-50 lb. lots, dlvd:—
Black, D&C, No. 1, cns....lb.10.95 - —
Brown, D&C, No. 1, cns....lb.16.10 - —
Green, D&C, No. 5, cns....lb.16.10 - —
No. 6, cns....lb.16.10 - —
No. 7, cns....lb.14.80 - —
Orange, D&C, No. 3, cns....lb.10.95 - —
No. 4, cns....lb.20.05 - —
No. 5, cns....lb. 5.70 - —
No. 10, cns....lb.20.70 - —
Red, D&C, No. 8, cns....lb. 2.85 - —
No. 9, cns....lb. 2.85 - —
No. 10, cns....lb. 2.30 - —
No. 11, cns....lb. 1.85 - —
No. 12, cns....lb. 2.65 - —
No. 17, cns....lb.10.95 - —
No. 18, cns....lb.24.00 - —
No. 19, cns....lb.15.45 - —
No. 21, cns....lb. 3.60 - —
No. 22, cns....lb.10.95 - —
No. 28, cns....lb.24.65 - —
No. 33, cns....lb.17.45 - —
Violet, D&C, No. 2, cns....lb.16.10 - —
Yellow, D&C, No. 7, cns....lb.10.95 - —
No. 10, cns....lb.13.50 - —
No. 11, cns....lb.13.50 - —

Dyes, coaltar, certified colors for drugs and cosmetics, external use, 1-lb. lots, works, 25-50 lb. lots, dlvd:—
Blue, Ext., D&C, No. 1, cns. lb.16.10 - —
Green, Ext., D&C, No. 1, cns. lb.16.10 - —
Red, Ext., D&C, No. 1, cns....lb.13.50 - —
Yellow, Ext., D&C, No. 1, cns. lb.10.95 - —

Dyes, coaltar, for general use in cloth dyeing (numbers are those of the Colour Index scale or prototype), contract, dlvd. No.
20 Chrysoidine Y....lb. .74 - —
27 Fast light orange 2G....lb. .90 - —
31 Phloxine 2G....lb. .74 - —
36 Yellow 2G....lb. .83 - —
40 Orange R extra, conc....lb. 1.06 - —
57 Fuchsine 6B....lb. 1.08 - —
79 Scarlet 2R....lb. .81 - —
151 Orange AD....lb. .55 - —
161 Orange RR....lb. .66 - —
176 Fast red A....lb. .99 - —
179 Rubine XX, conc....lb. 1.14 - —
180 Blue F4B....lb. .92 - —
185 Brilliant scarlet 3RN, conc. lb. .93 - —
202 Chrome blue black, conc.lb. .75 - —
203 Chrome black T....lb. .78 - —
208 Fast blue SR....lb. .91 - —
216 Chrome red B....lb. .84 - —
234 Brown Y....lb. .98 - —
246 Blue black, extra, conc....lb. .95 - —
275 Milling red 3R, conc....lb. 2.03 - —
289 Navy blue 3R, conc....lb. 1.19 - —
299 Black F, conc....lb. 1.54 - —
304 Neutral black 2B, conc., 200%....lb. 2.01 - —
326 Fast scarlet 4BNC....lb. 1.64 - —
332 Bismarck brown RX, conc. lb. .93 - —
365 Brilliant yellow, conc....lb. 2.57 - —
382 Scarlet B....lb. 1.82 - —
401 Diazo black BHD....lb. .69 - —
406 Blue 2B, extra conc....lb. 1.07 - —
419 Red FC, conc....lb. 1.12 - —
420 Brown M....lb. .98 - —
448 Red 4BX, conc....lb. 1.30 - —
518 Diamine sky blue FF, extra, conc. lb. 1.50 - —
561 Brown B....lb. 2.03 - —
581 Direct black EB....lb. .94 - —
593 Green BY, conc....lb. .72 - —
596 Yellow Brown K, extra..lb. .91 - —
620 Yellow 2G....lb. 1.79 - —
640 Yellow XX....lb. 1.61 - —
655 Yellow OX....lb. 2.04 - —
657 Green V....lb. 2.10 - —

Dyes, coaltar, for general use in cloth dyeing (numbers are those of the Colour index scale or prototype), contract dlvd.. No
662 Brilliant green G....lb. 2.79 - —
667 Brilliant milling green 6B, conc. lb. 3.68 - —
671 Blue EG....lb. 1.70 - —
681 Crystal violet powder....lb. 2.15 - —
698 Violet 4BXN....lb. 1.74 - —
720 Brilliant blue BBG....lb. 1.88 - —
729 Blue B, conc....lb. 2.79 - —
749 Red BX....lb. 4.33 - —
814 Yellow NN, conc....lb. 3.11 - —
841 Safranine GF, extra, conc., lb. 3.17 - —
865 Nigrosine WSJ....lb. .75 - —
922 Blue GXX....lb. 1.71 - —
924 Black GXCF, conc....lb. .32 - —
1034 Alizarine red SC....lb. 2.59 - —
1054 Alizarine blue SAPX....lb. 2.91 - —
1078 Alizarine green CG, extra, lb. 2.72 - —
1083 Alizarine blue, black, B lb. 2.33 - —
1096 Golden orange GFD, single paste lb. 1.99 - —
1099 Dark blue BO, single paste, lb. 1.75 - —
1101 Jade green N, double paste, lb. 1.98 - —
1106 Blue RS, double paste lb. 2.96 - —
1113 Blue BLFD, double paste.lb. 2.25 - —
1150 Olive R, single paste....lb. 1.10 - —
1151 Brown R, single paste lb. 1.76 - —
1171 Indigo, synthetic, 20% paste lb. .31 - —
1217 Orange RD, single paste.lb. 1.65 - —
p-4 Brown PG....lb. 2.30 - —
p-24 Gray L....lb. 1.60 - —
p-14 Brown EB....lb. 1.51 - —
p-80 Diazo brilliant scarlet ROAD lb. 2.79 - —
p-202 Diazo black VJ, conc. lb. 1.74 - —
p-244 Brilliant scarlet BN....lb. 1.31 - —
p-313 Naphthol SWF....lb. 2.42 - —

Dyes, coaltar, for stains, oil-soluble, 100-lb. dms., sellers' works.
Black blue No. 550....lb. .81 - —
Jet No. 551....lb. .89 - —
Brown R, conc....lb. 1.72 - —
Orange R, brilliant....lb. .90 - —
Red 4B, conc....lb. 1.37 - —
Yellow C....lb. 1.18 - —
FN, conc....lb. 1.22 - —

Dyes, coaltar, for stains, spirit-soluble, 100-lb. dms., sellers' works:—
Auramine O....lb. 1.85 - —
Black, basic blue....lb. 1.21 - —
Jet....lb. 1.21 - —
Blue, methylene, 2 B, conc lb. 1.71 - —
Brown Bismarck R, conc....lb. .86 - —
Chrysoidine, R, extra....lb. .60 - —
Y, extra....lb. .64 - —
Fuchsine, conc....lb. 3.08 - —
Green, malachite, conc....lb. 2.10 - —
Rhodamine, B....lb. 4.33 - —
Safranine, Y, conc....lb. 2.90 - —
Violet, methyl, B....lb. 1.10 - —

Dyes, coaltar, for stains, water-soluble, 100-lb. dms., sellers' works:—
Azo rubine R, extra conc....lb. 1.04 - —
Black, acid blue, B, extra..lb. .86 - —
Fast light, 3 G, extra....lb. 2.04 - —
Methanil, conc....lb. .91 - —
Orange acid, Y, conc....lb. .47 - —
Scarlet croceine, MOO....lb. 1.45 - —
Yellow, azo, conc....lb. .90 - —

Oil-soluble, spirit-soluble, water-soluble dyes in kegs, 3c. higher; tins, 10c. higher.

E

Echinacea root, bls....lb. 1.10 - —
Egg albumin (see Albumin).
Yolk, dried, dom., bbls....lb. 1.04 - 1.06
tanners, bbls....lb .06 .06½
Elder flowers, bright, bls....lb .35 .40
Elm bark, grinding, bls....lb. .45 - —
powd., bbls., bxs....lb. .55 - —
select, bundles....lb. .60 - —
Emetine hydrochloride, USP, bots oz 32.95 -35.00
Ephedrine, syn., USP, anhydrous, bots., 100-oz. lots oz. .98 - 1.00
hydrous, bots., 100-oz. lots oz. .92 - —
Hydrochloride, tins, 100-oz. lots. oz. .75 - —
Sulfate, cryst., tins, 100-oz. lots. oz. .72 - —
powd., tins, 100-oz. lots oz. .73 - —
Epichlorohydrin, dms., c.l., dlvd lb. .39 - —
l.c.l., dlvd....lb. .40 - —
tanks, dlvd....lb. .37 - —
Epsom salt (see Magnesium sulfate).
Epinephrine, syn., USP, bots., 100-gram lots gram. .45 - .55
Ergosterol, unirradiated, cryst kilo. 150.00 - —
Ergot, NF, dms., tin-lined....lb. 3.00 - —
Eserine salicylate, bots....oz. 29.75 -32.50
Sulfate, bots....oz. 34.50 -35.61
Ether (see specific product).
Ethyl acetate, nat. ferment., 85-88%, dms., c.l., frt. alld lb. .13 - —
l.c.l. frt alld lb. .14 - —
tanks frt alld lb. .11 - —
95-96%, dms., c.l., frt. alld. lb. .13¼- —
l.c.l., frt. alld. lb. .14¼- —
tanks, frt alld....lb. .11¼ —

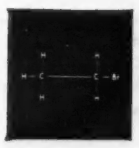
individualized intermediates

for ORGANIC SYNTHESIS

Here are some of the individualized intermediates available through Michigan Chemical Corporation, in either test or production quantities. All chemicals are of highest quality, produced under control of our research and analytical laboratories, backed by 20 years experience. For complete information on specifications, description and properties of these and other intermediates, just write for our booklet "Individualized Intermediates".

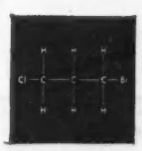
Hydrobromic Acid. A clear, colorless or light amber colored fuming liquid. Used for manufacture of inorganic metal bromides, aliphatic bromides, pharmaceuticals, dyes and intermediates. 48% acid and other strengths as desired, in glass.

Methyl Bromide. Used in organic synthesis for the introduction of the methyl group, especially in preparation of certain pharmaceutical chemicals. It is a heavy, colorless liquid and is nonflammable. Being highly penetrating and toxic, it is an effective insecticide and fumigant.



Ethyl Bromide. A clear, colorless, volatile liquid, specially prepared for use as an intermediate in organic synthesis. Practically free from impurities; has a narrow boiling range. Used in manufacture of dyes, perfumes and pharmaceuticals, especially barbiturates.

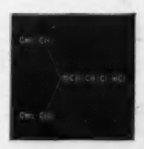
Monobromobenzene. Clear, colorless, heavy liquid. Specially prepared for use as an intermediate in preparation of organic compounds. For introduction of the phenyl radical and in Grignard-type reactions. A pure material with a 4 degrees C. boiling range; specific gravity 1.495.



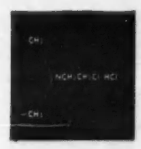
Trimethylene Chlorobromide. Clear, colorless liquid used in manufacture of anesthetic grade cyclopropane. Greater reactivity of bromine atom makes trimethylene chlorobromide specially useful also in preparation of gamma chloro compounds. Boiling range 2 degrees C. maximum.

Phosphorous Tribromide. Brominating agent. A liquid, boiling point 173 degrees C., which fumes in contact with moist air. Used in synthetic work to convert alcohols to bromides, and acids to acyl bromides. Specially useful in preparation of bromides from alcohols without rearrangement.

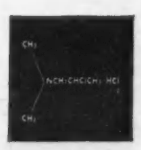
Cyclopentyl Bromide. A clear, colorless liquid with an aromatic odor. Specially prepared for use in organic synthesis, particularly for introduction of the cyclopentyl radical. Many potential uses in manufacture of pharmaceuticals. Purified grade, 2 degrees C. boiling range.



β-Diethylaminoethyl Chloride Hydrochloride. (DEC). $(CH_3CH_2)_2\ NCH_2CH_2Cl \cdot HCl$. A granular solid. Specially suited for use as an intermediate in organic chemical manufacture, including the manufacture of antispasmodic agents and other pharmaceuticals.



β-Dimethylaminoethyl Chloride Hydrochloride. (DMC). $(CH_3)_2\ NCH_2CH_2Cl \cdot HCl$. A granular solid. Specially prepared for use in manufacture of antihistaminics and other pharmaceuticals. Other potential uses in organic synthesis. Relatively non-toxic in hydrochloride form.



β-Dimethylaminoisopropyl Chloride Hydrochloride. $(CH_3)_2\ NCH_2CHClCH_3 \cdot HCl$, (DMIC). An organic intermediate similar in appearance and properties to DEC and DMC. Specially prepared for manufacture of analgesics and other pharmaceuticals. Other potential uses in organic synthesis.

MICHIGAN CHEMICAL CORPORATION Saint Louis, Michigan
EASTERN SALES OFFICE: 230 Park Avenue New York 17, New York
BASIC MANUFACTURER OF INDUSTRIAL, PHARMACEUTICAL AND AGRICULTURAL CHEMICALS

Ethyl Acetate, Nat., Ferment.—Glauber's Salt

Ethyl acetate, nat., ferment., 99%, dms., c.l., frt. alld.....lb. .13½- —
l.c.l., frt alld. ....lb. .14½- —
tanks, frt. alld.....lb. .11½- —
syn., 85-98% dms., c.l., dlvd. lb. .13 - —
l.c.l., dlvd. ....lb. .14 - —
tanks, dlvd .....lb. .11 - —
95-98%, dms., c.l., dlvd....lb. .13¼- —
l.c.l., dlvd. .....lb. .14¼- —
tanks, dlvd .....lb. .11¼- —
99%, dms., c.l., dlvd.....lb. .13½- —
l.c.l., dlvd. .....lb. .14½- —
tanks dlvd .....lb. .11½- —
Acetoacetate, dms., c.l., dlvd...lb. .55 - —
l.c.l., dlvd .....lb. .56½- —
Acrylate, dms., c.l., and truck load, works lb. .44½- —
less than truckload, works lb. .45½- —
tanks, works .....lb. .42¾- —
Aminobenzoate, USP (see Benzocaine).
Bromide, tech., 98%, dms., c.l. lb. .41 - —
l.c.l. lb. .43 - —
Butyl ketone, dms., c.l., works lb. .35½- —
l.c.l., works .....lb. .36 - —
tanks, works .....lb. .34 - —
Butyrate, works.....lb. .80 - 1.02
Carbamate (see Urethane).
Cellulose, vis. 7 cps., bgs., 5,000-lb. lots or more, works lb. .70 - —
smaller lots, works lb. .72 - .80
vis., 10, 20, 50, 100, 150 cps., bgs., 2,000-lb. lots or more, works lb. .65 - .70
smaller lots, works ...lb. .67 - .81
Chloride, tech., cyl., c.l., works lb. .20 - .22
dms., c.l., same basis.....lb. .18 - .20
tanks same basis .....lb 10 —
USP, bots., cyls .....lb. .22 - .24
Ethyl cinnamate, cns.....lb. 2.71 - 3.45
Ethanolamines, mixed, dms., c.l., frt. alld., E. Miss..lb. .42½- —
l.c.l., same basis.....lb. .43½- —
tanks, same basis .....lb. .40½- —
Ether, absoluate, ACS, dms....lb. .37 - —
anesthesia, UPS, hospitals, 1-lb. cns. lb. .89 - —
½-lb. cns.....lb. .97 - —
¼-lb. cns.....lb. 1.05 - —
solvent, USP, dms., c.l., dlvd..lb. .15¾- —
l.c.l., dlvd.....lb. .16¾- —
tanks, dlvd.....lb. .13¾- —
syn., dms., c.l., dlvd. E.....lb. .12 - —
l.c.l., dlvd. E.....lb. .13 - —
tanks, dlvd. E .....lb. .10 - —
Gallate, dms., 100 to 2,000-lb. lots lb. 3.90 - 4.40
Iodide, cbys., works .....lb. 3.30 - —
Methacrylate, dms., c.l., and less than truckload, works lb. .51½- .52
Morphine hydrochloride, USP, bots..oz.11.85 - —
Nitrite (see Nitrous ether).
Oenanthate, dms. .....lb. 1.00 - 1.50
Oleate, dms., l.c.l., works.....lb. No prices.
Oxalate (see Diethyl oxalate).
Silicate dist. (see Tetraethylorthosilicate).
40% available SiO_2, dms., dlvd.lb. .53½- —
N-Ethyl-a-naphthylamine, dms., works, lb. 1.02 - —
N-Ethyl-o-toluidine, bbls .....lb. .88 - —
Ethylamine (see Mono. Di- or Tri-)
N-Ethylaniline, dms., c.l., frt. alld. lb. .51 - —
l.c.l., frt. alld.....lb. .52 - —
tanks, frt. alld.....lb. .50 - —
Ethylbenzene, 99%, dms., c.l.....lb. .19½- .20¼
l.c.l. .....lb. .20½- .21¼
tanks .....lb. .18½- —
Ethylene dichloride, dms., c.l., dlvd lb. .10¼- —
l.c.l., same basis.....lb. .12¼- —
tanks, same basis.....lb. .09 - —
Ethylene dichloride prices W. of Rockies 1c per lb higher.
Glycol, dms., c.l., dlvd. E.....lb. .14¾- —
l.c.l., same basis.....lb. .15¾- —
tanks, same basis.....lb. .13 - —
Monobutyl ether, dms., c.l., dlvd. E lb. .20 - —
l.c.l., dlvd. E.....lb. .21 - —
tanks, dlvd E.....lb. .18½- —
Monoethyl ether, dms., c.l., dlvd. E lb. .20 - —
l.c.l., dlvd. E.....lb. .21 - —
tanks, dlvd E.....lb. .18½- —
Acetate, dms., c.l., dlvd. E lb. .18½- —
l.c.l., dlvd E .....lb. .19½- —
tanks, dlvd. E .....lb. .16½- —
Monomethyl ether, dms., c.l., dlvd. E lb. .20 - —
l.c.l., dlvd. E .....lb. .21 - —
tanks, dlvd E.....lb. .18½- —
Acetate, dms., c.l., dlvd. E.lb. .28¾- —
l.c.l., dlvd. E .....lb. .29¼- —
tanks, dlvd. E .....lb. .27 - —
Monostearate, triple pressed, dms lb. .34 - —
Oxide, dms., c.l., dlvd. E.....lb. .21 - —
l.c.l., dlvd. E.....lb. .24 - —
tanks, dlvd. E.....lb. .15 - —
Trichloride (see Trichloroethane).
Ethylenediamine 85-88%, dms., c.l., dlvd. E., 100% basis lb. .46 - —
l.c.l., dlvd. E., 100% basis lb. .47 - —
tanks, dlvd. E., 100% basis lb. .44 - —
Ethylvanillin, cns., 25-lb. lots....lb. 6.75 - 7.30
smaller lots .....lb 7.35 - 7.40
Eucalyptol, USP, cns., dms.....lb 1.40 - 1.50
Eugenol, USP, bots. .....lb. 2.70 - 3.55
Euphorbia herb, bls.....lb. .15 - .17

F

Feldspar, 140-200 mesh, bulk, c.l., works ton.19.50 - —
Feldspar in bags $3 per ton higher.
Fennel seed, Argentine, bgs.....lb. .10½- .11
Czech, medium, bgs.....lb. .11 - —
Indian, light, bgs.....lb. .11 - —
Fenugreek seed, Moroccan, bgs. lb. .06¼- .06½
Ferric acetate, liquor, 28°, bbls., c.l., works lb. .09 - —
l.c.l., works .....lb. .09¾- —
soln., USP IX, cybs.....lb. .16 - —
djns. .....lb. .17 - —
Cacodylate, NF, bots .....lb.13.00 -14.00
Chloride, anhyd., tech., dms., c.l., works 100 lbs. 6.75 - —
l.c.l., works 100 lbs. 8.00 - —
indust., cryst., bbls., c.l., works. 100 lbs. 4.75 - 5.25
l.c.l., works.....100 lbs. 5.75 - 6.25
42° Be, cbys., c.l., works. 100 lbs. 7.25 - 8.25
tanks, frt. equald., 100% basis 100 lbs. 3.25 - —
USP, cryst., dms., works....lb. .07½- .09
Citrate, gran., dms .....lb. .86 - —
Glycerophosphate, NF, powd lb. 4.75 - 4.85
Hydrophosphite, NF, dms .....lb. 3.45 - —
Naphthenate liq., 6% Fe., dms., frt. alld lb. .25¾- —
Oxalate, gran., dms .....lb. .85 - .87
Phosphate, NF, soluble, gran., pearls, cs lb. .64 - .65
Pyrophosphate, NF VII, soluble, gran., pearls, dms lb. .78 - .81
Resinate, 6¾% Fe, dms., frt. alld. lb. .29 - —
Stearate, dms., c.l., frt. alld ....lb. .37 - —
l.c.l., frt. alld .....lb. .38 - .42
Sulfate, partially hydrated, bgs., c.l., works ton.31.75 -33.75
l.c.l., works.....ton.34.75 -40.75
Ferric-ammonium citrate, brown, NF, gran., dms lb. .59 - —
green, USP XII, gran., dms lb. .59 - —
Oxalate, fine gran., dms.... lb. .25½- .28¼
Ferric-potassium, oxalate, fine gran., dms lb. .30½- .33¼
Ferric-sodium oxalate, fine gran., dms lb. .25½- .28¼
Ferrous gluconate, NF, dms....lb. .88 - —
Sulfate, gran., bgs., c.l., works. ton.34.50 - —
l.c.l., dlvd. Metropolitan area..100 lbs. 3.35 - 4.25
bbls., c.l., works .....ton.40.00 - —
bulk, c.l., works.....ton.27.00 - —
USP cryst., bbls., dms.....lb. .09½- .10
Fir balsam, Canada, cns.....gal.34.00 -35.00
Oregon, bbls .....gal. 3.00 - —
Fishliver oil (see Oil fishliver).
Fishmeal, menhaden, ground, domestic, 60% protein, bags, Balto area..ton.130.00 - —
Fishscrap, menhaden, dried, 60% protein, bags, Balto area..ton.125.00 - —
Fluorspar, dom., acid grade, bulk, c.l., mine ton.60.00 - —
ceramic grade, 93-96% CaF_2, grd., bulk, c.l., mine ton.57.50 - —
85-92% CaF_2, grad., bulk, c.l., mine ton.47.00 - —
metallurgical grade, briquets, pellets, 65% CaF_2, bulk, c.l., mine ton.34.00 - —
lump, 50-65% effective CaF_2, bulk, c.l., mine ton.40.00 - —
washed gravel, 50-60% effective, CaF_2, bulk, c.l., mine ton.40.00 - —
60-65% effective CaF_2, bulk, c.l., mine ton.40.00 -41.00
65-70% effective CaF_2, bulk, c.l., mine ton.42.00 - —
70% or better, effective CaF_2, bulk c.l., mine ton.43.00 - —
Formaldehyde, NF, (inhibited), dms., c.l., Zone 1, dlvd..lb. .062 - —
Zone 2.....lb. .065 - —
l.c.l., dlvd.....lb. .069 - —
tanks, Zone 1, dlvd.....lb. .0375- —
Zone 2, dlvd.....lb. .0420- —
methanol-free (uninhibited), tanks, Zone 1, dlvd..lb. .0345- —
Zone 2, dlvd.....lb. .0395- —
Fleaseed (see Psyllium seed).
Fringetree bark, bls.....lb. .60 - .61
Fuller's earth, bgs., c.l., Ill. mines. ton.19.00 - —
powd., insecticide grade, dried, bgs., c.l., Ga. or Fla. mines ton.17.50 - —
calcined, bgs., c.l., same basis ton.20.00- .21.75
oil-bleaching grade, 100-mesh, bgs., c.l., same basis..ton.16.50 -17.00
200-mesh, bgs., c.l., same basis..ton.17.50 -18.00
spent, bgs., c.l., shipt. point..ton. 4.50 - 5.00
Furfural, dms., c.l., works.....lb. .13 - —
l.c.l., works.....lb. .14 - —
tanks, dlvd. E.....lb. .12 - —
tanks, dlvd. W.....lb. .13 - —
Fusel oil, refined, dms., c.l., dlvd lb. .17½- —
l.c.l., dlvd. .....lb. .18½- —
tanks, dlvd .....lb. .15 - 15¼
Fustic extract, cryst., No. 1, bbls., l.c.l. lb. .47½- —
No. 2, bbls., c.l.....lb. .45½- —
No. 3, bbls., l.c.l.....lb. .43½- —
liquid, No 1, bbls., l.c.l.....lb. .22½- —
No. 2, bbls., c.l.....lb. .21¼- —
No. 3, bbls., l.c.l.....lb. .19 - —
solid, No. 1, bxs., l.c.l.....lb. .45 - —

G

G salt, 100% basis, bbls., frt alld lb. .73 - —
Gammapicoline (see g-Picoline).
Gasoline, tanks, refy., ex tax, Arkansas, 84 octane..gal. .11¼- —
Group 3, 84 octane .....gal. .1075- .11375
Gulf coast, 83 octane....gal. .116 - —
N. Y. Harbor, 86 octane..gal. .1245- —
Penn. western US motor 86 octane gal. .1375- .1418
natural, group 3, 26-80 octane gal. .04½- —
Gelatin, edible, pure (pork skin), 75 Bloom test, bbl., c.l..lb. .57 - —
150 Bloom test, bbl., c.l..lb. .68 - —
200 Bloom test, bbl., c.l..lb. .74 - —
225 Bloom test, bbl., c.l..lb. .77 - —
275 Bloom test, bbl., c.l..lb. .84 - —
Gelsemium root, bls.....lb. .23 - .24
Gentian root, bls .....lb. .17 - .20
grd., bbls., bxs.....lb. .22 - .23
powd., bbls., bxs.....lb. .23 - .24
Geraniol, extra, cns., dms.....lb. 1.90 - 2.20
standard, cns., dms.....lb. .60 - 1.00
Geranyl acetate, cns.....lb. 1.45 - 2.20
Ginger, oleoresin, NF, from African root, bots..lb. 4.00 - 7.75
from Jamaican root, bls...lb. 6.00 -10.25
Root, African, bls.....lb. .32 - —
Jamaica, No. 1, bgs. .....lb. .45 - .50
No 2, bgs. .....lb. .36 - —
No. 3, bgs. .....lb. .34 - —
Rhattoon, bgs.....lb. No prices.
Nigerian, split, bgs.....lb. .28 - —
Glauber's salt, anhyd. see Sodium sulphate)

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in shape

1 price

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Celanese* CHEMICALS

Glue, bone, extracted, 86 jellygrams, bgs., c.l., dlvd.	lb.	.17	—
104 jellygrams, same basis	lb.	.19	—
131 jellygrams, same basis	lb.	.21	—
164 jellygrams, same basis	lb.	.23	—
191 jellygrams, same basis	lb.	.25	—
222 jellygrams, same basis	lb.	.28	—
packers' 40 jellygrams, bgs., c.l., dlvd.	lb.	.15½	—
65 jellygrams, same basis	lb.	.16½	—
88 jellygrams, same basis	lb.	.17	—
115 jellygrams, same basis	lb.	.17½	—
135 jellygrams, same basis	lb.	.18½	—
164 jellygrams, same basis	lb.	.19½	—
renderers' 100 jellygrams, bgs., c.l., dlvd	lb.	.15	—
Bone glue, l.c.l., prices 1c. higher.			
Hide, 70-94 jellygrams, bgs., c.l., dlvd.	lb.	.18	—
95-121, bgs., c.l., dlvd	lb.	.20	—
122-149, bgs., c.l., dlvd	lb.	.22	—
150-177, bgs., c.l., dlvd	lb.	.24	—
178-206 jellygrams, bgs., c.l., dlvd.	lb.	.26	—
207-236, bgs., c.l., dlvd	lb.	.28	—
237-266, bgs., c.l., dlvd	lb.	.30	—
267-298, bgs., c.l., dlvd	lb.	.32	—
299-330, bgs., c.l., dlvd	lb.	.34	—
331-362, bgs., c.l., dlvd	lb.	.36	—
363-394, bgs., c.l., dlvd	lb.	.37	—
395-427 bgs., c.l., dlvd	lb.	.38	—
428-460, bgs., c.l., dlvd	lb.	.39	—
461-494, bgs., c.l., dlvd	lb.	.40	—
495-529, bgs., c.l., dlvd	lb.	.41	.42
Hide glue l.c.l. prices 1c. higher.			
Glycerine, nat., crude, saponification, 88%, to refineries, tanks, works	lb.	.23	Nom.
soaplye, 80%, tanks, works	lb	.21	Nom.
refd., BP, 98%, dms., c.l., dlvd	lb.	.30½	—
l.c.l., dlvd	lb.	.31	—
tanks, dlvd	lb.	.30	—
dynamite, dms., c.l., dlvd.	lb.	.30½	—
l.c.l., dlvd	lb.	.31	—
tanks, dlvd	lb.	.30	—
high gravity, dms., c.l., dlvd.	lb.	.30½	—
l.c.l., dlvd	lb.	.31	—
tanks, dlvd	lb.	.30	—
USP, CP, 95%, dms., c.l., dlvd.	lb.	.29½	—
l.c.l., dlvd	lb.	.30	—
tanks, dlvd	lb.	.29	—
yellow, distilled, dms., c.l., dlvd.	lb.	.30	—
l.c.l., dlvd	lb.	.30½	—
syn., dms., c.l., dlvd	lb.	.30½	—
l.c.l., dlvd	lb.	.31	—
tanks, dlvd	lb.	.30	—
Glycine (see Acid aminoacetic).			
Glycerol (see Glycerine).			
Glyoxal, 30%, dms., c.l., works	lb.	.18½	—
l.c.l., works	lb.	.19	—
tanks, works	lb.	.18	—
Gold chloride, acid-brown, bots.	oz.	22.50	-23.00
acid-yellow, bots	oz.	20.00	-20.50
Golden seal root, NF, tested, bls.	lb.	2.25	- 2.50
powd., bxs	lb.	2.75	- 3.25
Graphite, amorph., powd., bgs., fib. dms., ex whse	lb.	.06	- .09½
crystalline, 88-90%, powd., bgs., fib. dms., ex whse	lb.	.19	- .21½
90-92%, powd., bgs., fib. dms., ex whse	lb.	.21	- .24½
95-97%, powd., bgs., fib. dms., ex whse	lb.	.29	- .31½
Graphite, flake, No. 1, 90-95%, bgs., fib. dms., ex whse	lb.	.29	- .31
No. 2, 90-95%, bgs., fib. dms., ex whse	lb.	.29	- .31
Grease, brown, tanks, dlvd	lb.	.05¼	—
house, tanks, dlvd	lb.	.05¾	—
white, choice, not all hog, tanks, dlvd	lb.	.06½	—
yellow, tanks, dlvd	lb.	.06	—
Green, brilliant, thioflavin, toner, molybdated, PMA, kgs, works.	lb.	5.10	—
tungstated, PTMA, kgs., works	lb.	6.00	—
Chrome, CP, dark, light, medium, blue content 1 to 15%, bbls., dlvd. N. of Tenn. and N. C., E. of Miss., including St. Paul, Minn., Davenport, Rock Island, St. Louis	lb.	.38	—
16-30%, bbls., same basis	lb.	.39	—
31-45%, bbls., same basis.	lb.	.40	—
45-49%, bbls., same basis.	lb.	.43	—
50%, bbls., same basis	lb.	.48	—
reduced color, 25%, bbls., same basis	lb.	.19	—
Chrome green prices are ½c. higher, dlvd., at the following points, except as noted:—Ala., Fla., Ga., La. (Shreveport 1½c.), Miss., N. C., S. C., Tenn., Texas (Dallas, Ft. Worth, 1¼c.; El Paso, 2c.); Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1c. higher dlvd. Pac. coast; for Denver, Pueblo, Salt Lake City, Wichita, prices are equalized with Chicago.			
Chromium oxide, hydrated, bbls., dms., c.l., frt. alld	lb.	1.00	- 1.10
pure, bgs., c.l., frt. alld	lb.	.59¼	—
l.c.l., same basis	lb.	.39¾	—
Dyes (see Dyes, coaltar).			
Malachite, straight, PTMA, bbls., works	lb.	4.60	—
Paris (see Paris green).			
Phthalocyanine toner, bbls., works.	lb.	3.95	—
resinated, bbls	lb.	3.50	—
water dispersable, bbls	lb.	1.71	—
Pigment B, kegs	lb.	1.35	—
paste, kegs	lb.	.38	—
Grindelia robusta herb, bls	lb.	.44	—
Guaiacol, NF, cryst., dms., tins	lb.	2.10	- 2.15
liquid, cbys., dms	lb.	2.30	- 2.40
Carbonate, NF VII, dms	lb.	3.40	- 3.45
Gum, aloe (see Aloe).			
Arabic, amber, sorts, bgs	lb.	.19	—
powdered, USP, bbls	lb.	.23	- .24
Asafetida (see A).			
Asphaltum (see A).			
Benzoin, Sumatra, cs	lb.	.38	- .42
Camphor (see C).			
Cellulose, high vis., bgs., 23,000-lb. lots or more, works, frt. alld.	lb.	.55	—
smaller lots, same basis	lb.	.57	—
Copal, Congo, No. 1, bgs	lb.	.20	- .22
No. 2, bgs.	lb.	.18	- .19
No. 3, bgs.	lb.	.16	- .17
Manila, C, bags	lb.	.38	- .40
CBB, bgs	lb.	.27	- .29
DBB, bgs	lb.	.25½	- .26½
DK, bgs	lb.	.20	- .22
dust, bgs	lb.	.11	- .12½
MA, soft, bgs	lb.	.20½	- .21½
WS, bgs	lb.	.32	- .36
Philippine, pale, chips, bgs	lb.	.24	- .25
nubs, bgs	lb.	.30	- .32
seeds, bgs	lb.	.15	- .17
sorts, bgs	lb.	.20	- .22
Pontianak, chips, bgs	lb.	.21	- .23
nubs, bgs	lb.	.36	- .40
Dammar, Batavia, A/E, cs	lb.	.27	- .29
dust, bgs	lb.	.16	- .18
E, bgs	lb.	.29	- .22

Gum, dammar, East India, batu, bold, bgs	lb.	.14	- .15½
nubs and chips, bgs	lb.	.08½	- .09½
black, bold, bgs	lb.	.14	- .16
unscraped, bgs	lb.	.11	- .13
nubs and chips, bgs	lb.	.11	- .13
pale, chips, bgs	lb.	.13	- .14
nubs, bgs	lb.	.18	- .20
Siam, cs	lb.	.35	- .37
Singapore, No. 1, bgs	lb.	.40	- .41
No. 2, bbls	lb.	.27	- .29
No. 3, bbls	lb.	No prices.	
dust, bgs	lb.	.16½	- .17
seeds, bgs	lb.	.20	- .22
Ester, gum-rosin type, dms., c.l., dlvd. fill., fnd., Ky., Mich., Mid-Atl. States, N.E. States, Minneapolis, N. C., Ohio, St. Louis, St. Paul, Va., W. Va	lb.	.15½	—
wood-rosin type, dms., c.l., same basis	lb.	.15	—
Karaya, NF, powd., No. 1, bbls.	lb.	.38	—
No. 2, bbls	lb.	.28	- .29
No. 3, bbls.	lb.	.24	- .25
Locust bean, powd., bgs	lb.	.31	- .33
Myrrh, cs.	lb.	.38	- .40
Opium (see O).			
Olibanum siftings, cs	lb.	.15	- .20
tears, cs.	lb.	.22	- .30
Rosin (see R).			
Sterculia (see Gum Karaya).			
Tragacanth, No. 1, ribbons, cs	lb.	2.85	- 2.90
No. 2, cs	lb.	2.45	- 2.50
No. 3, cs	lb.	1.60	- 1.70
powdered, USP, bbls	lb.	1.25	- 1.35
Gypsum, plaster of paris, 100-lb. paper, bgs., trucks, dlvd. N. Y. C	ton.	20.30	—
terra alba, domestic, same basis.	ton.	19.00	—
works, N. Y. C.	ton.	16.00	—
imported, English, 100-lb. paper bags, ex dock, N. Y. C.	ton	55.00	—
ex warehouse	ton.	60.00	-62.00

H

Hawthorn berries, bgs.	lb.	.28	- .33
Heliotropin, cryst., cns	lb.	3.50	- 4.25
Hellebore root dom green, bls	lb.	.55	- .65
Helonias root, bls	lb.	1.75	- 2.00
Hematine extract, cryst., No. 2, bbls., l.c.l.	lb.	.47	—
No. 2, bbls., l.c.l.	lb.	.43	—
No. 3, bbls., l.c.l.	lb.	.41	—
No. 4, bbls., l.c.l.	lb.	.39	—
No 5, bbls., l.c.l.	lb.	.37	—
paste No 1 bbls. l.c.l.	lb.	.20½	—
Henbane leaves, bls	lb.	.35	- .40
Heptane, indust., tanks, Bayonne, N. J	gal.	.19	—
Baytown, Tex	gal.	.14¾	—
Borger, Tex	gal.	.14¾	—
Hesperidin methylphalcone, bots., works	lb	50.00	—
Hexachlorophene, dms	lb.	2.60	—
Hexalin (see Cyclohexanol).			
Hexamethylenetetramine, tech., bgs., 1,000-lb. lots or more, Perth Amboy or N.Y.C.	lb.	.232	—
smaller lots, same basis	lb.	.242	—
fib. dms., 1,000-lb. lots or more, same basis	lb.	.239	—
smaller lots, same basis	lb.	.249	—
USP, dms., 500-lb. lots or more, same basis	lb.	.40½	—
smaller lots, same basis	lb.	.41½	—
Hexamine (see Hexamethylenetetramine).			
Hexane, indust., tanks, Bayonne, N. J	gal.	.19	—
Baytown, Tex	gal.	.15½	—
Borger, Tex	gal.	.15½	—

Glue—Hydrofuramide

1-Hexanol, dms., c.l., works	lb.	.34½	—
l.c.l., works	lb.	.35	—
tanks, works	lb.	.33	—
Hexyl cinnamic aldehyde, dms.	lb.	4.50	- 7.50
Salicylate, dms.	lb.	1.75	—
Hexylene, glycol, dms., c.l., dlvd	lb.	.16	—
l.c.l., dlvd	lb.	.17	—
tanks, dlvd	lb.	.14	—
n-Hexyl methacrylate, dms., less than truckload, works	lb.	.71	—
Hexylresorcinol, USP, dms., 50-lb. lots or more, dlvd	lb.	14.00	—
smaller lots, dlvd.	lb.	14.50	—
Histamine diphosphate, USP, bots.	kilo	456.00	—
l-Histidine hydrochloride, NF, fib, dms., 50-kilo lots, works.	kilo	80.00	-85.00
1-5 kilo lots, works	kilo.	90.00	-95.00
Homatropine hydrobromide, USP bots	oz	9.35	-10.00
Methylbromide, USP, bots	oz.	8.50	- 9.00
Hoofmeal, 17-18% ammonia, bulk, c.l., Chicago	unit-ton.	7.00	—
Horehound herb, bls	lb.	.16	- .19
Hydrastine, bots	oz.	29.50	-31.00
Hydrochloride, NF bots	oz.	29.50	-31.00
Sulfate, bots	oz.	25.00	-27.00
Hydrastinine 10-grain bots	bot	1.95	—
Hydrastis (see Goldenseal).			
Hydrazine, free base, ret. dms., Lake Charles	lb.	3.00	- 3.30
Hydrate, 100%, ret. dms., Lake Charles	lb.	1.75	- 1.95
85%, ret. dms., same basis	lb.	1.35	1.55
Hydrofuramide, dms., fib. ctns., works	lb.	.30	- .40

INGENUITY

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Hydrogen Chloride—Lime, Spray

Hydrogen chloride, anhyd., 50-lb. cyls., c.l., works lb. .45 - —
l.c.l., works lb. .55 - .60
Fluoride, anhyd., cyls., dlvd. E lb. .30½- .32½
cyls., dlvd., W lb. .39 - —
tanks, works lb. .21 - —
Peroxide USP bbls. dlvd lb. 03¾ .05
35%, cbys., dlvd lb. .238 - —
dms., c.l., dlvd lb. .202 - —
l.c.l., dlvd. lb. .211 - —
tanks, dlvd. lb. .1800- —
Hydroquinone photo grade bbls. dms. lb .98 1.00
tech., dms., c.l., dlvd lb. .77½- —
l.c.l., same basis lb. .79½- —
Hydroxycitronellal, cns lb. 5.10 6.00
Hoscine salts (see Scopolamine.)
Hyoscyamine, bots oz.15.75 -16.00
Hydrobromide, bots oz.11.00 -12.00
Sulfate, bots oz.10.50 -11.50
Hypernic extract, cryst., No. 2, bbls., l.c.l. lb. .52 - —
liquid No 1 bbls., l.c.l. lb .35 - —
No. 2, bbls., l.c.l. lb. .27 - —

I

Ichthammol, NF, dms lb. .60 - .75
Indian red (see Red, Indian).
Indigo (see Dyes, coaltar, 1171 indigo synthetic).
Indole, CP, bots lb.17.00 -21.00
Inositol, bots., dlvd lb 5.00 —
dms., dlvd. lb. 4.50 4.75
Insect flowers (see Pyrethrum).
Iodine, crude, kgs lb. 1.15 - —
resub., USP, bots., pars lb. 2.55 - —
Iodochlorohydroxyquinolin, USP, dms. lb. 5.90 - —
Iodoform, NF, dms., kgs lb 4.90 5.00
a-Ionone, cns lb. 3.85 - 8.25
b-Ionone, cns lb. 4.30 -11.25
Methyl (see under M)
Ipecac, root, bgs lb. 8.00 - —
powd., bbls., bxs lb. 8.50 - —
Irish moss, bleached, prime, bls lb. .30 - .35
Iron Compounds (see Ferric or Ferrous).
Isoborneol, cns lb. 1.25 - 1.70
Isobornyl acetate, cns lb. .62 - .95
formate, dms. lb. .80 - —
Propionate, dms lb. 1.15 - 1.45
Isobutyl acetate, perfume grade, cns lb. .75 - 1.00
solvent grade dms., c.l. dlvd E. of Rockies lb. .13¼- —
l.c.l., same basis lb. .14¼- —
tanks, same basis lb. .11¼- —
Isobutyraldehyde, dms., dlvd lb. .50 - —
Isoeugenol, cns lb. 3.45 - 4.25
Isoniazid, powd., bulk, 25-kilo lots or more kilo.23.00 -25.50
smaller lots kilo.24.00 -26.00
Isopentane, coml. grade, tanks, f.o.b. Tex. refy gal. .15½- —
Isonicotinic acid hydrazide (see Isoniazid).
Isophorone, dms., c.l., works lb. .24¼- —
l.c.l., works lb. .24¾- —
tanks, works lb .22½- —
Isopropanol (see Alcohol, isopropyl).
Isopropyl acetate, dms., c.l., dlvd. lb. .12 - —
l.c.l., same basis lb. .13 - —
tanks, same basis lb. .10 - —
Alcohol (see Alcohol, isopropyl).
Benzene (see Cumene).
Ether, dms., c.l., dlvd lb. .07 - —
l.c.l., dlvd lb. .08 - —
tanks, dlvd lb .05 - —
Isopropylamine (see Mono, Di, or Tri-).
Isoquinoline, dms., works lb. .65 - 1.25

J

Jalap root, NF, bls lb. .38 - .85
powd., bbls., bxs lb. .49 - .66
Juniper berries, bgs lb. .16 - .18
Tar, NF, dms lb. .42 - .60

K

Kaolin (see also Clay, China).
NF, powd., fib. dms lb. .08 - .16½
collodial, fib. dms lb. .15 - .15½
Kerosene, tanks, refy., Ark., 42-44 specific gravity, w.w. gal. .095 - —
California, 40-43 s.g., w.w gal. .138 - .148
Gulf ports, 41-43 s.g., w.w.gal. .09¼- .09¾
N. Y. Harbor, 43-44 s.g., w.w. gal. .102 - .1035
Okla.Tex., 42-44 s.g., w.w gal. .09½- .10
Penn., Western, 45 s.g., w.w. gal. .103 - .12
Kola nuts, bgs lb. .12 - —

L

Lactose, crude, bgs., c.l., works lb. .15 - —
edible, fib. dms., 30,000-lb. lots, works lb. .22 - —
2,000-lb. lots, works lb. .22¾- —
200-1,800-lb. lots, works lb. .23¼- —
Edible lactose in bgs., 1c. lower.
USP, fib. dms., 30,000-lb. lots, works lb. .24 - —
2,000-lb. lots, works lb. .24¾- —
200-1,800-lb. lots, works lb. .25¼- —
USP lactose in bgs., 1c. lower.
Lady's slipper root, bls lb. 1.70 - 1.75
Lanolin, cosmetic, dms., works lb. .33 - .36
USP, anhyd., dms., works lb. .30 - .33
hydrous, dms., works lb. .29 - .32
Lard, cash, dms., Chicago lb. .16¼- —
Larkspur seed, bgs lb. .20 - .23
Lauryl chloride, dist., dms. c.l., works, frt. equald lb. .74 - —
l.c.l., same basis lb. .75 - —
Methacrylate, normal, dms., c.l. or truckload lb. .65½- —
Lavender flowers, medium, bls lb. .55 .60
ordinary, bls lb. .16 - .20
select, bls lb. .90 - —
Lead acetate, white, cryst., bbls lb. .23 - —
gran. bbls lb. .22 - —
powd., bbls lb. .23 - —
NF, cryst., gran., powd lb. .31 - .32
Arsenate, acid powder, dealers, 3-lb. bgs, or larger, c.l., frt. alld. on 95 lbs. or more lb. .27½- —
l.c.l., frt. alld lb. .28½- —
1-lb bgs., c.l. lb. .41½- —
l.c.l. lb. .42½- —
Blue, basic sulfate, bbls., c.l., shipt. point, frt. alld lb. .13¼- —
l.c.l., same basis lb. .16¼- —
Carbonate (see Lead, white).
Chloride dms lb .45 —
Iodide, NF V jars lb. 3.82 - —
Linoleate, fused, 26%% Pb, dms. lb. .33 - —
Metal, pigs, prime, N. Y lb. .14¾- —
St. Louis lb. .1455- —
Metallic paste, dms., 20,000-40,000-lb. lots, works lb. .33¾- —
10,000-20,000-lb. lots same basis lb. .34¾- —
2,000-10,000-lb. lots, same basis lb. .35¼- —
200-2,000-lb. lots, same basis, lb. .35¾- —

Prices ex whse. Jersey City, N. J., 4½c. per lb. higher.

Monosilicate, bgs., c.l., works, frt. equald lb. .1555- —
l.c.l., same basis lb. .1605- —
Naphthenate, liquid, 16% Pb, dms., dlvd lb. .17½- —
24% Pb. dms., dlvd lb. .23¾- —
solid, 37% Pb. dms., dlvd lb. .31¼- —
Nitrate, bbls lb. .42¼- —
Orthosilicate gel., 50% PbO_2, dms., works lb. .32¾- —
60% PbO dms works lb. .31¾ —
Peroxide, powd., tech., bbls lb. .38¾- .40¼
Phthalate, dibasic, dms., works lb. .41 - —
Red, 95% Pb_3O_4, or less, bbls., c.l., works, frt. equald lb. .17¼- —
l.c.l., same basis lb. .17¾- —
97% Pb_3O_4, bbls., c.l., same basis lb. .17½- —
l.c.l., same basis lb. .18 - —
98% Pb_3O_4, bbls., c.l., same basis lb. .17¾- —
l.c.l., same basis lb. .18¼- —
Resinate, precip., 23% Pb, dms., dlvd lb. .31 - —
Salicylate, normal, dms., works lb. .46 - —
Sulfate (see Lead, blue, basic sulfate; Lead, white, basic sulfate).
Tallate, liquid, 16% Pb, dms lb. .15¼- —
Kimbalton, Va ton.10.25 - —
24% Pb, dms lb. .20¼- .20½
White, basic carbonate, bgs., c.l., shipt. point, frt. alld lb. .17½- —
l.c.l., same basis lb. .18½- —
basic silicate, bgs., c.l., shipt. point, frt. alld lb. .16 - .18
l.c.l., same basis lb. .17 - .19
basic sulfate, ogs., c.l., ship., point, frt. alld lb. .15¼- —
l.c.l., same basis lb. .16¼- —
Lecithin, edible, tech., bleached, non-ret, dms., c.l., works lb. .15 - .17
l.c.l., same basis lb. .15½- .17¼
unbleached, non-ret., dms., c.l., same basis lb. .13 - .15
l.c.l., same basis lb. .14½- .16¼
dl-Leucine, dms., works lb.12.25 -15.00
Licorice root, whole, bbls. lb. .08 - .12
gran., bbls. lb. .12 - .17
powd., bbls. lb. .10 - .15
Lignosulfonate, 70% tannin, bgs., c.l., works lb. .06½- —
l.c.l., works lb. .06¾- —
Lime, agricultural, bulk, works ton.14.50 - —
Chemical (quicklime) lump, pebble, bulk, Adams, Mass ton.12.50 - —
Annville, Pa ton.11.50 - —
Austin, Texas ton. 9.50 - —
Bellefonte, Pa. ton.11.50 - —
Buffalo, N Y ton.14.00 - —
Cedar Hollow, Pa ton.11.50 - —
Duluth, Minn. ton.12.50 - —
El Paso, Texas ton.14.00 - —
Farnams, Mass ton.14.00 - —
Gibsonburg, Ohio ton.12.50 - —
Hannibal, Mo. ton.10.00 - —
Keystone, Ala ton.10.25 - —
Kimbalton, Va ton.10.25 - —
Knoxville, Tenn ton.10.50 - —
Lee, Mass. ton.12.50 - —
Lewisburg, Ohio ton.10.00 - —
Limedale, Ark ton.10.00 - —
Los Angeles, Cal ton.25.10 -26.84
Marble Cliff, Ohio ton.10.00 - —
Martinsburg, W. Va. ton.11.00 - —
Mosher, Mo. ton.10.75 - —
Nelson, Ariz. ton.14.50 -23.65
Quincy, Ill ton.10.00 -13.00
Reddick, Fla ton.13.50 - —
Scotrock, Ala. ton.10.25 - —
Springfield, Mo. ton.12.25 - —
Winooski, Vt ton.15.50 - —
Woodville, Ohio ton.11.50 - —
York, Pa ton.15.50 - —
Hydrated, paper bgs., Adams, Mass. ton.15.50 - —
Annville, Pa ton.14.50 - —
Austin, Texas ton.13.00 - —
Bellefonte, Pa ton.14.50 - —
Buffalo, N Y ton.16.00 - —
Cedar Hollow, Pa. ton.14.50 - —
Chicago, Ill ton.15.00 - —
Duluth, Minn ton.14.00 - —
El Paso, Texas ton.17.50 - —
Engle, W Va ton.14.50 - —
Farnams, Mass. ton.14.00 - —
Gibsonburg, Ohio ton.16.50 - —
Hannibal, Mo. ton.12.00 - —
Keystone, Ala. ton.13.50 - —
Kimballton, Va ton.13.50 - —
Knoxville, Tenn. ton.13.00 - —
Lee, Mass ton.15.50 - —
Lewisburg, Ohio ton.14.00 - —
Limedale, Ark. ton.12.00 - —
Marble Cliff, Ohio ton.15.50 - —
McNeil, Pa ton.13.00 - —
Menominee, Mich. ton.14.00 - —
Mosher, Mo. ton.13.00 - —
North Tazewell, Va. ton.12.75 - —
Quincy, Ill. ton.10.00 -12.00
Reddick, Fla ton.16.00 - —
Scotrock, Ala ton.13.50 - —
Springfield, Mo. ton.12.25 - —
Winooski, Vt ton.15.50 - —
Woodville, Ohio ton.14.50 - —
York, Pa ton.14.50 - —
Spray, paper bgs., Adams, Mass. ton.17.00 - —
Annville, Pa ton.17.00 - —
Austin, Texas ton.13.00 - —
Bellefonte, Pa. ton.17.50 - —
Carey, Ohio ton.11.00 - —
Duluth, Minn. ton.15.00 - —
Engle, W Va. ton.14.50 - —
Farnams, Mass. ton.14.00 - —

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Lime, spray, paper bgs., Gibsonburg, Ohio ton 16.50 - —
Keystone, Ala. ton 13.50 - —
Kimballton, Va. ton 13.50 - —
Lee, Mass. ton 17.00 - —
Lewisburg, Ohio ton 16.00 - —
Marble Cliff, Ohio ton 16.00 - —
McNeil, Tex. ton 16.00 - —
Menominee, Mich. ton 14.00 - —
Mosher, mo. ton 13.00 - —
North Tazewell, Va. ton 12.75 - —
Reddick, Fla. ton 16.00 - —
Rockland, Me. ton 10.00 - —
Springfield Mo. ton 12.25 - —
Scotrock, Ala. ton 13.50 - —
Winooski, Vt. ton 17.00 - —
Woodville, Ohio ton 16.50 - —
York Pa ton 15.50 - —

Lime salts (see Calcium).

Lime-ammonia nitrogen 20.5% N (see Ammonium nitrate with dolomite).

Limestone, grd., bgs., works ton. 3.50 - 4.00

Linalool, ex bois de rose oil, dms. lb. 5.95 - 6.70
ex lignaloe wood oil, dms. lb. 5.30 - 7.10

Linalyl acetate, ex bois de rose, 90-92%, dms lb. 5.55 - 6.25
96-98%, dms lb. 6.75 - 7.15
ex petitgrain, bots. lb. 3.90 - 5.25

Lindane, 25% formulation, dealers, dms., works lb. 1.58 - —
99%, tech., dealers, dms., dlvd., lb. 3.10 - —

Linden flowers with leaves, bls lb. .34 - .35
without leaves, bls lb. .40 - .41

Linseed meal, expeller, 32-34% bulk, Midwest, mills ton 68.00 -68.50
extracted, 36% bulk, same basis. ton 60.00 -60.50

Litharge, coml., powd., bbls., c.l., works, frt. equald. lb. .16¼- —
l.c.l., same basis lb. .16¾- —

Lithium benzoate dms lb 1.65 1.67
Bromide NF bbls., works, frt. equald lb 2.10 2.75
Carbonate, tech., c.l., dlvd lb. 1.00 - —
l.c.l., same basis lb. 1.05 - 1.20
Chloride, cryst., dms lb. 1.22 - 1.28
Citrate, NF, bbls., dms., kgs lb 1.60 1.64
Fluoride, bbls., 10,000-lb. lots lb. 2.15 - —
ton lots lb. 2.20 - —
less ton lots lb. 2.25 - —
Hydride, powd., dms., works lb. 12.00 -14.00
Hydroxide, monohydrate, dms., ton lots lb. 1.10 - —
Salicylate, dms lb. 1.60 - 1.70

Lithopone, ord., bgs., c.l., dlvd lb. .07½- —
l.c.l., dlvd. lb. .08¼- .08½
titanated (high-strength), bgs., c.l., dlvd lb. .10 - —
l.c.l., dlvd lb. .11 - —
Lithopone prices, Pacific Coast, 1c. per lb. higher.

Lobelia herb, bls lb. 1.25 Nom.
Lobeline sulfate, bots., works oz. 29.50 -33.50
Logwood extract, cryst., No. 1, bbls., l.c.l. lb. .41 - —
No. 2, bbls., l.c.l lb. .39 - —
liq., No. 1, bbls., l.c.l lb. .20 - —
No. 2, bbls., l.c.l lb. .19 - —
No. 3, bbls., l.c.l lb. .18½- —
solid, No. 1 lb. .35 - —
Lycopodium, cs lb. 1.50 - —
di-Lysine hydrochloride, bots. kilo. 140.00 -150.00

M

Mace, Siauw, No. 1, bls. lb. 1.30 - —
West Indian, No. 1, bls. lb. 1.29 - —
Magnesia, calcined, tech., ctns. works lb .32 34¾
syn. rubber grade, light bgs., works lb. .23 - .25
extra light, works lb. .31 - —
USP, light, ctns lb. .34 .36
heavy, bbls lb .36 .38
Magnesite, chemical grade, calcined powd., bgs., c.l., works, frt equald ton 82.50 - —
dead-burnt, standard grain, bulk, c.l., Chewelah, Wash ton 38.00 - —
Magnesium bromide, jars lb. .90 - 1.00
Carbonate, tech., bgs., c.l., frt. equaled lb. .09½- —
l.c.l., frt alld lb. .10½- —
bbls., c.l., frt. equald lb. .10¾- —
l.c.l., frt alld lb. .11¾- —
kgs, c.l., frt. equald lb. .12 - —
USP, bgs., c.l., frt. equald lb. .11¼- —
l.c.l. frt alld lb. .12¼ —
bbls., c.l., frt. equald lb. .11¾- —
l.c.l. frt alld lb. .12¾ —
kgs., c.l., frt. equald lb. .13 - —
l.c.l. frt alld lb. .14 - —
Magnesum carbonate is quoted frt. alld. to N. J. except to Atlantic, Burlington, Cape May, Cumberland, Glostershire, Ocean and Salem counties, and to Phila county, Pa. Frt equald with N. Y. C. on all other destinations.
Chloride, anhyd., 82% flake or pebble, dms., c.l., works lb. .12¾- —
l.c.l., same basis lb. .14 - .15
hydrous, 99% flake, bgs., c.l., works ton 50.00 - —
l.c.l., bgs ton 55.00 -105.00
Gluconate, dms., cns lb. 1.30 - 1.37
Glycerophosphate, dms., works lb. 5.40 5.50
Hydroxide, NF, medicinal, bbls., dms. kgs lb. 26½ .30
Metal, 99.8% ingots, cs., works lb. .27 - .2820
sticks, cs., works, frt. alld. on carlots lb. .45 - .48
Oxide (see Magnesia, calcined)
Peroxide, 15%, dms., works lb. 1.00 - 1.05
Phosphate, tribasic, NF, bbls lb. .75 - —
Silicate (see Talc).
Silicofluoride, bbls., works lb. .09 .10
Sulfate, tech., bgs., c.l., works, 100 lbs. 2.15 - —
l.c.l., works 100 lbs. 2.90 - 3.15
USP, cryst., bgs., c.l., works, 100 lbs. 2.35 - —
l.c.l., 5,000 lbs., 1 withdrawal 100 lbs. 3.10 - —
smaller lots 100 lbs. 3.35 - —
Trisilicate, USP, dms., 5,000-lb. lots lb. .38 - —
1,000-lb lots lb. .40 - —
100-lb lots lb. .45 - —
Bulky and super grades of magnesium trisilicate, 7c. per lb. higher

Malathion, dms., works lb. 1.05 - —
Maleic anhydride, dms., c.l., dlvd. E lb. .27 - —
l.c.l., dlvd. E lb. .28 - —
Prices on maleic anhydride W of Rockies, 1½c. higher.

Mandrake root, bls lb. .32 .34
Manganese acetate, bbls., dlvd lb. .35 - —
Arsenate, bgs lb. .16 - —
Borate, tech., bbls lb. .24 - —
Manganese carbonate, bbls., works, lb. .22 - —
Chloride, anhyd., dms., works lb. .25½- —
Dioxide, African, 84-87%, 40,000 to 99,999-lb. lots, paper bgs., grues for nat. works ton 83.00 - —
paper-lined burlap bgs., works ton 91.50 —
dms., works ton 94.00 —
Prices for manganese dioxide in 10,000 to 40,000-lb. lots, $3 per ton higher.

Manganese gluconate, dms. lb. 1.79 - 1.93
Glycerophosphate, NF, fib dms lb. 4.70 - 4.80
Hydrate, bbls., dlvd lb. .36 - —
Hypophosphite, NF, dms lb. 3.52 - —
Linoleate, liq., 4.35% Mn., dms. lb. .32½- —
solid, precip., 8.2% Mn., bbls. lb. .37½- —
Metal, cs., dlvd, East lb. .30 - .32
Naphthalene, liq., 6% Mn., dms., frt. alld lb. .27 - —
Resinate, fused, 3½% Mn., dms lb. .23 - —
precip., 6½-7% Mn., dms lb. .27 - —
Sulfate, fertilizer grade, 65%, bgs., c.l., dlvd. S. E ton 80.50 - —
l.c.l., dlvd. S. E ton 87.50 - —
Tallate, 6%, dms lb. .24 - —
Mangrove bark, E. African, 38% tannin, c.l., ex dock ton 69.00 -70.00
So. American, 30% tannin, c.l. ex dock ton 55.00 -58.00
Mannitol, coml., dms., works lb. .40 - .43
Melamine, bgs., ton lots, works lb. .33 - —
500 to 2,000-lb lots, works lb. 33½- —
smaller lots, works lb. .38½- —
Menadione, USP, bots. gram .06 - .06½
Menthol, nat., USP, Brazilian, cs lb. 8.65 - 8.75
Japanese, cs lb. 13.00 - —
syn., USP, racemic, cns lb. 5.45 - —
Menthyl salicylate, tins lb. 4.00 - 4.25
2-Mercaptobenzothiazole, bgs., fib. dms., ton lots, works, frt. alld lb. .38 - —
less ton lots, same basis lb. .40 - —
Mercaptobenzothiazyl disulfide, bgs., fib. dms., ton-lots, works, frt. alld lb. .48 - —
less ton lots, same basis lb. .50 - —
Mercuric chloride, NF, cryst., dms., 50-lb. lots or more lb. 4.98 - —
gran. or powd., dms., 50-lb. lots or more lb. 4.78 - —
Mercuric cyanide, NF d.,). 6.84 - —
Iodide, red, NF,). 7.72 - —
Oxide, red, NF, s. b. 5.97 - 6.01
yellow, tech. (see mercury oxide). USP, fib. dms lb. 6.14 - —
Mercurous chloride (see Calomel).
Iodide, yellow, NF lb. 7.72 - —
Mercury, ammoniated (see White precipitate USP).
Metal, 76 lbs. per flask, net flask. 330.00 - —
Mesityl oxide, dms., c.l., dlvd lb. .1350- —
l.c.l., dlvd. lb. .1450- —
tanks, dlvd. lb. .1150- —
Meta-aminophenol (see m-Aminophenol).
Metachloroaniline (see m-Choloraniline)
Metanitroaniline (see m-Nitroaniline)
Metanitroparatoluidine (see m-Nitro-p-toluidine).
Metaphenylenediamine (see m-Phenylenediamine)
Metatoluidine (see m-Toluidine)
Metatolylenediamine (see 2,4-tolylenediamine).
Methanol, nat., denaturing grade, tanks, frt alld gal. .70 —
Prices on natural methanol W of Miss. 3c. higher
syn., Zone 1, dms., c.l., dlvd., or truckload min., frt. alld. gal. .42 - —
l.c.l., same basis gal. .48 - —
tankwagon, 2-4,000 gals., dvld., Metropolitan areas gal. .30 - —
tanks, dlvd., or 4,000 gal. min., frt. alld gal. .27 - —
4,000 gal. min., frt. equald. with Camden, N. J gal. .25½- —
Zone 2, dms., c.l., or truckload min., frt. alld or dvld gal. .47 - —
l.c.l., same basis gal. .53 - —

Lime, Spray—Methyl Acetone

Methanol, syn., Zone 2, tankwagon, 2-4,000 gals. min., dlvd. Metropolitan areas gal. .35 - —
tanks, 4,000 gal., min., frt. alld. or dlvd gal. .32 - —
Synthetic methanol zones are:—Zone 1 is all continental U. S. E. of eastern boundaries of Ariz., Idaho and Utah. Zone 2 is remainder of U. S. west of above state boundaries, comprising Ariz., Calif., Idaho, Nev., Ore., Utah and Wash.

Methenamine (see Hexamethylenetetramine).

dl-Methionine, fib. dms., frt. alld., 50-lb. or more lb. 4.55 - —
feed grade, 98% fib. dms., same basis lb 3.00 - —
97% fib dms same basis lb 2.97 - —

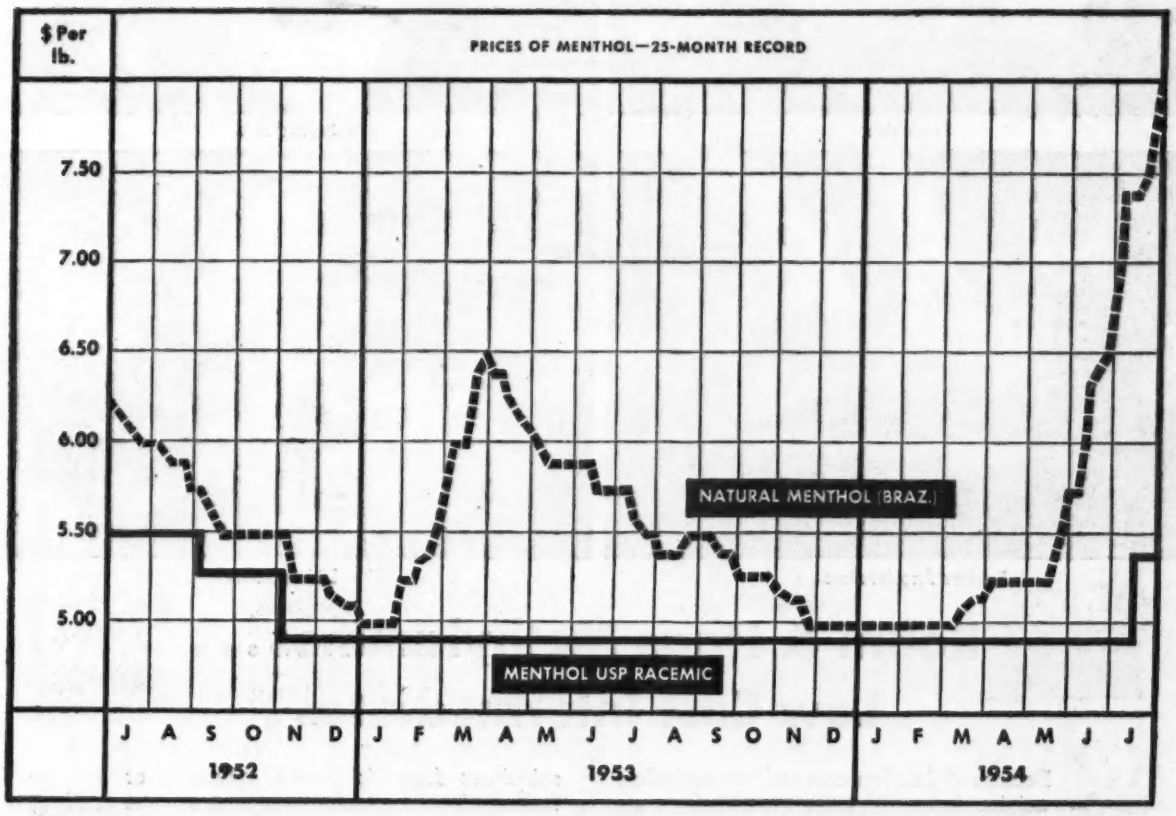
Methoxychlor, 50% wettable powder, dealers dms. ca. frt. alld lb. .81 - .84

Methyl abietate, non-ret. dms., c.l., dlvd. zone 1 lb. .20½- —
l.c.l., same basis lb. .21 - —
hydrogenated, non-ref., dms., c.l., dlvd., zone 1 lb. .21 - —
l.c.l., same basis lb. .21½- —
Zone 1 includes New England and Middle Atlantic states, Va., W. Va., N. C., Ohio, Ky., Mich., Ind., Ill., Wis., St. Paul and Minneapolis, Minn.; St. Louis, Mo.; Miss., Ala., Ga., Fla., S. C. and Tenn.

Acetone, nat., dms., l.c.l., E. of Miss., frt. alld gal. .62½- —
syn., dms., c.l., frt. alld. E. gal. .57 - —
l.c.l., frt. alld. E gal. .63 - —
tanks, frt. alld E gal. .45 - —
Synthetic methyl acetone E. territory in all States East of and including Colo., Mont., N. Mex. and Wyo. West territory in all States West of those four.

Givaudan Menthol USP Racemic

- *Stably priced far below Natural and Synthetic Laevo Menthols*
- *Consistently your best buy!*



The above graph shows the remarkably firm, dependable — and low — price levels of Givaudan Menthol USP Racemic during the past two years — a striking contrast to the erratic course of Natural Menthol, now climbing to an all-time high!

In other respects as well, Givaudan Menthol USP Racemic offers exceptional advantages because

... its quality is uniformly high

... it is in ample supply domestically — no danger of shortages or import difficulties

... it has been proved in over ten years of successful use in pharmaceutical products — while priced substantially below both the Natural and Synthetic Laevo Menthols

So specify Givaudan Menthol USP Racemic. You will benefit from savings in cost... and from the consistent high quality which distinguishes every Givaudan product.

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Methyl Acrylate—Nitrocellulose, Ester-Soluble

Methyl acrylate, dms., c.l., and truckload, works lb. .44½- —
less than truckload, works lb. .45½- —
tanks, works lb. .42¾- —
Alcohol (see Methanol).
Amyl acetate, dms., c.l., dlvd. E lb. .15 - —
l.c.l., dlvd. E lb. .16 - —
tanks, dlvd. E lb. .13 - —
Ketone, dms., works lb. 1.05 - —
Anthranilate, cns. lb. 2.50 - 2.65
Benzoate, cns., dms lb. .53 - .65
Bromide jobbers, cyls., various sizes works lb. .47 - .61
Cellulose, special, vis. (1,500-4,000 cps.) 50-lb bgs. c.l., works lb. .78 - —
2,000-lb. lots and more, same basis lb. .85 - —
smaller lots, frt alld on 100 lbs lb. .89 - 1.00
standard vs. (15,-400 cps.), 50-lb., c.l., alld lb. .66 - —
2,000-lb. lots and more, same basis lb. .72 - —
smaller lots, frt. alld. on 100 lbs lb. .75 - 85
Chloride, indust., cyls., frt. equald. lb. .21 - —
tanks, multi-unit, same basis lb. .15 - —
single unit, same basis lb. .11½- —
refrigerator mfrs., cyls., dlvd lb. .40 - .42
other consumers or service men, cyls., dlvd lb. .57 - —
Cinnamate, cns. lb. 1.43 - 1.80
Cyclohexanol, dms., c.l., works lb. .35½- —
l.c.l., works lb. .36 - —
tanks, works lb. .34 - —
Ethyl ketone, dms., c.l., dlvd lb. .13 - —
l.c.l., dlvd lb. .14 - —
tanks, dlvd lb. .11 - —

Methyl formate, refd., dms lb. .35 - .40
tech., non-ret. dms., any quantity, works lb. .06 - —
tanks works lb. .07 - —
Heptin carbonate, bots lb. 33.00 - 42.00
p-Hydroxybenzoate, fib. dms lb. 1.90 - 2.00
Ionone, standard, cns., dms lb. 3.80 - 4.65
Isobutyl carbinol, dms., c.l., dlvd lb. .15 - —
l.c.l., dlvd lb. .16 - —
tanks, dlvd lb. .13 - —
Ketone, dms., c.l., dlvd lb. .15 - —
l.c.l., dlvd. lb. .16 - —
tanks, dlvd. lb. .13 - —
Lactate dms l.c.l. works lb. 35 - —
Methacrylate, dms., c.l., and truckload, frt. equald., with Belle, W. Va., and Arlington, N. J. lb. .36½- —
smaller lots, same basis lb. .37 - —
tanks same basis lb. .35 - —
Naphthyl ketone, cryst., cns lb. 3.60 - 4.30
Parahydroxybenzoate (see Methyl p-Hydroxybenzoate).
Roseaniline chloride, NF fib. dms. lb. 5.44 - —
Salicylate, USP. cns., 50 lb. lots. lb. .58 - —
dms. lb. .53 - —
Testosterone, USP, 100-gram bots. gram. .79 - —
2-Methyl-5-ethyl pyridine, dms., c.l., works lb. .47½- —
l.c.l., works lb. .48 - —
tanks, works lb. .46 - —
Methylene blue, fib. dms., 100-lb. lots, frt. adjusted lb. 3.25 - 3.60
smaller lots, same basis lb 3.40 - 3.60
Chloride, indust., dms., c.l., dlvd. E. lb. .13½- —

Methylionone, A, cns. lb. 6.55 - 6.80
D, cns. lb. 7.50 - 9.55
prime, cns. lb. 4.55 - 6.40
standard, dms., cns. lb. 3.80 - 4.65
b-Methylnaphthalene, 32°C. m.p., dms., works lb. .90 - —
Methylparaben (see Methyl parahydroxybenzoate).
Methylpentanediol (see Hexyleneglycol).
Methylphenylpyrazolone (see 1-Phenl-3-methylpyrazolone-5).
Methylthionine chloride (see Methylene blue).
Mica, dry-grd., paint plastic, 100 mesh, bgs., c.l., works lb. .04¼- —
roofing, 20 to 80 mesh, works lb. .03 - .04
wet-grd., biotite, bgs., c.l., works, frt. alld. E lb. .06¼- —
l.c.l., ex-whse. or frt. alld. E lb. .07 - —
paint, or lacq., bgs., c.l., works, frt. alld lb. .07¾- —
l.c.l., ex-whse. or frt. alld. E lb. .08½- —
rubber, bgs., c.l., works, frt. alld. E lb. .07½- —
l.c.l., ex-whse. or frt. alld. E lb. .08½- —
wallpaper, bgs., c.l., works, frt. alld., E lb. .07¾- —
l.c.l., ex-whse. or frt. alld. E lb. .08¼- —
white, extra, fine bgs., c.l., works, frt. alld. E lb. .07¾- —
l.c.l., ex-whse. or frt. alld. E lb. .08½- —
Mica, wet-grd. W. of Miss R. ½c. higher. W. of Rockies, 1c. higher.
Milk powder, non-fat, roller, bgs., c.l. lb. .12 - .1535
spray, bgs., c.l. lb. .14 - .1610
whole, roller, bgs., c.l. lb. No prices.
spray, bgs., c.l. lb. .27 - .31
Sugar (see Lactose).

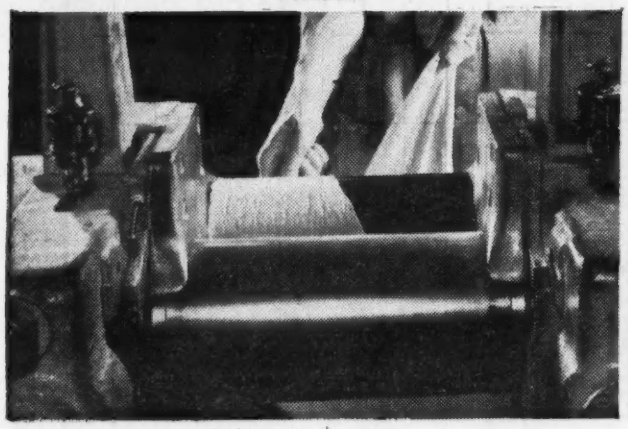
Mineral spirits (see Petroleum mineral spirits).
Molasses, blackstrap feed grade, tanks, New Orleans gal. .10½- .11
New York gal. .12 - —
Molybdenum metal, 98% Mo powd., kgs. lb. 3.00 - 3.25
Trioxide, pure, kgs., works, basis Mo. content lb. 1.35 - —
technical, kgs., works, basis Mo. content lb. 1.14 - —
Monobutylamine, dms., c.l., E. of Rockies lb. .55 - —
l.c.l., same basis lb. .56 - —
tanks, same basis lb. .53 - —
Monochlorobenzene dms., c.l., frt. alld. or dlvd. E lb. .11½- —
l.c.l., same basis lb. .12½- —
tanks, same basis lb. .10 - —
Monochlorobenzene prices in the West, 1¼c higher.
Monoethanolamine, dms., c.l., dlvd. E lb. .26¾- —
l.c.l., same basis lb. .27¾- —
tanks, same basis lb. .25 - —
Monoethylalphanaphthylamine (see N-Ethyl-a-naphthylamine).
Monoethylamine, 70% contained amine, dms., c.l., dlvd E lb. .33 - —
l.c.l., dlvd. E lb. .34 - —
tanks, dlvd. E lb. .31 - —
Monoethylaniline (see N-Ethylaniline).
Monoethylortotoluidin (see N-Ethyl-o-toluidine).
Monoisopropylamine, dms., c.l., dlvd. lb. .30½- —
l.c.l., same basis lb. .31½- —
tanks, same basis lb. 28½- —
Monomethylamine, 25%-40% dms. c.l., frt. equald., 100% basis. lb. .37 - —
l.c.l., 100% basis lb. .37½- —
tanks, 100% basis lb. .31 - —
Monosodium fluoroacetate (see Sodium fluoroacetate monobasic).
Glutamate (see Sodium glutamate monobasic).
Phosphate (see Sodium phosphate monobasic).
Mono-tertiary-butylmetacresol (see 6-tert-Butyl-m-cresol).
Morphine cns. oz. 12.40 - 12.60
Acetate, anhyd. cns. oz. 9.95 - 10.00
Hydrobromide, cns oz. 9.90 - 9.95
Hydrochloride, NF, cns. oz. 9.90 - 9.95
Sulfate, USP, cns. oz. 9.90 - 10.05
Morpholine dms., c.l., dlvd. E lb. .54¾ - —
l.c.l., dlvd. E lb. .55¾- —
tanks, dlvd. E lb. .52¾- —
Musk, nat., Tonquin grains, bots. oz. No stocks.
syn., ambrette, 100-lb. lots, fib. dms. lb. 5.15 - —
25-lb. lots, cns. lb. 5.20 - —
5-lb. lots, cns lb. 5.30 - —
ketone, 100-lb. lots, fib. dms. lb. 5.30 - —
25-lb. lots, cns lb. 5.35 - —
5-lb. lots, cns lb. 5.45 - —
xylol, 100-lb. lots, fib. dms lb. 1.40 - —
25-lb. lots, cns lb. 1.45 - —
5-lb. lots, cns lb. 1.50 - —
Mustard seed, Danish, yellow, bgs. lb. .12 - —
Dutch, yellow, bgs. lb. .11 - .11¼
English, yellow, bgs. lb. Nominal
Montana, Oriental, bgs. lb. .09 - .09½
yellow, bgs. lb. .11½- .12
Myrobalans, J-1, assorted, bgs., ex dock ton. 47.00 - 48.00
crushed, bgs., ex dock ton. 62.50 - —
ordinary, bgs., ex dock ton. 42.00 - —
extract, Indian, solid, 53% tannin, exdock, plus duty, bgs lb. .07¼ Nom.

N

Naphtha, painters (see Petroleum naphtha V. M. & P.).
Solvent (see S).
Naphthalene, crude, dom., 74° tanks, frt. equald lb. .045 - —
78°, dms., c.l., same basis lb. .059 - —
l.c.l., same basis lb. .0615- —
tanks, same basis lb. .05 - —
imported, 78°, large lots lb. .04½- .04¾
refd., indust., dom., chipped or crushed, bgs., frt. equaled lb. .10½- —
flake, bgs., same basis lb. .11½- —
tanks, same basis lb. .09¾- —
balls, flakes, wholesalers, jobbers, bbls., c.l., same basis, lb. .13¾- —
cs., 50 lbs., c.l., same basis lb. .14 - —
1-lb. pkgs. c.l., same basis lb. .16¼- —
a-Naphthol, bbls., frt. alld. lb. 1.00 - —
b-Naphthol, resublimed, dms., works. lb. .78½- —
tech., bbls., c.l., works lb. .32½- —
l.c.l., works lb. .34½- —
Benzoate, fib. dms., works lb. 3.00 - —
custom contract, works lb. 1.65 - —
Salicylate, dms lb. 5.00 - —
Sulfate, cns lb. 35.00 - —
a-Naphthylamine, bbls., frt. alld. lb .50 - —
b-Naphthylamine, tech., bbls., works. lb. 1.05 - 1.10
Neocinchophen, USP, dms., frt. adjusted lb. 7.00 - 8.00
Neomycin, fib. dms., 100-kilo lots, basis, activity gram. .60 - —
1-kilo lots, basis, activity gram. 1.20 - —
Nerolin, cns lb. 2.15 - 2.65
Niacin (see Acid, nicotinic).
Niacinamide (see Nicotinamide).
Nickel acetate, bbls., dlvd lb. .75 - .83¼
Carbonate, bbls., dlvd lb. .71 - .78
Chloride, bbls., dlvd lb. .37 - .45
Formate, bbls., ton lots, frt alld. lb. .64 - .68
Metal, electro cathodes, cs, works lb. .60 - —
Nitrate, bbls., works lb. .36 - .37
Oxide, black, bbls lb. .69 - —
Sulfate, bgs., c.l., dlvd lb. .29 - —
l.c.l., dlvd lb. .29½- .37
Nicotinamide, USP, dms., frt. adjusted kilo. 12.00 - 12.30
Hydrochloride, dms., frt. adjusted. kilo. 11.50 - 11.80
Nicotine sulfate, 40%, dealers, 50-lb. dms., frt. alld. lb. 1.20 - —
manufacturers, 500-lb. dms., frt. alld. lb. 1.03 - —
Niger seed, bgs. lb. .14½- .15
Nikethamide, cbys. lb. 5.75 - 6.00
m-Nitroaniline, dms., frt. alld. lb. 1.05 - —
o-Nitroaniline, flaked, dms. lb. .54 - .57
powd., dms. lb. .60 - —
p-Nitroaniline, dms., l.c.l., frt. alld. lb. .50½- —
Nitrobenzene, dbl. dist., dms., c.l., frt. alld. lb. .12 - —
l.c.l., frt. alld. lb. .13 - —
tanks, frt. alld lb. .11 - —
o-Nitrobiphenyl, tech., dms., c.l., works lb. .14½- —
l.c.l., works lb. .15 - —
tanks, works lb. .13 - —
Nitrocellulose, ester-soluble, 30-35 cps., ¼, ½, ¾, 5-6, 15-20, 30-40, 60-80, 125-175, secs., bbls., c.l., works lb. .34 - —
l.c.l., same basis lb. .35 - .37
18-25 cps., bbls., c.l., same basis lb. .36 - —
l.c.l., same basis lb. .37 - .39
250-400, 600-1,000 secs., bbls., same basis lb. .39 - —
l.c.l., same basis lb. .40 - .42

Pesticides

Surfactants



Rubber Accelerators

Disinfectants

Rohm & Haas Methylamines... Low Cost Intermediates

Because of their low cost and low equivalent weight, Rohm & Haas methylamines are ideal sources of basic organic nitrogen. They can be used as intermediates for many products. These include pesticides, surfactants, accelerators for vulcanizing rubber, quaternary disinfectants, pharmaceuticals, photographic developers, and dyestuffs.

All three amines—mono-, di-, and trimethylamine—are shipped in both aqueous and anhydrous form, in drums, cylinders, or tankcars. They are produced in large volume at two separate plants, which guarantees you continuing availability.

Twenty years of producing and handling methylamines assure you a product of high purity and uniform quality. This experience is yours for the asking in detailed, authoritative literature to help you in research, process development, and plant design.

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ROHM & HAAS COMPANY
WASHINGTON SQUARE, PHILADELPHIA 5, PA.
Representatives in principal foreign countries

PRIMENE *is a trade-mark, Reg. U. S. Off. and in principal foreign countries*

Nitrocellulose, spirit-soluble, 30-35 cps., ¼, ½ sec., bbls., same basis lb. .41 - —
l.c.l., same basis lb. .42 .44
8-6, 40-60 secs., bbls., c.l., same basis lb. .40 - —
l.c.l., same basis lb. .41 .43

Denatured alcohol used in the manufacture of nitrocellulose is charged extra. Drums extra but returnable.

o-Nitrochlorobenzene, dms. lb. .20 - .21
p-Nitrochlorobenzene, dms. lb. .26 - .27
2-Nitro-4-chlorophenol, dms. lb. .75 - —
Nitroethane, dms. dlvd. E. of Rockies lb .25 - —
Nitrogen solution, tanks, frt. equald, 37-40.5% N, 100% basis ton. 128.00 - —
Nitrogenous process tankage bulk works unit-ton. 3.75 Nom.
Sewage sludge, bulk, works unit-ton. 2.95 + .50
Nitromethane, dms. l.c.l., dlvd E. of Rockies lb. .25 —
a-Nitronaphthalene, bbls, frt. alld. lb. .41 - —
Nitropropane 1, dms., dlvd. E. of Rockies lb. .23¼- —
2, dms., dlvd. E. of Rockies lb. .25 - —
l.c.l., works lb. .24¾- —
tanks, works lb. .22¾- —
o-Nitrophenol, dms., works, frt. equald lb. .94 - —
p-Nitrophenol, dms., works, frt. equald lb. .50 - —
o-Nitrotoluene, dms., c.l., frt. alld. lb. .10 - —
l.c.l., frt. alld lb. .11 - —
tanks, frt. alld lb. .09 - —
p-Nitrotoluene, dms., works lb. .33 - .36
m-Nitro-p-toluidine, dms lb. 1.59 - —
Nitrous ether, conc., bots 100-lb. lots lb. 1.28 - 1.35
Nonyl phenol, dms., c.l., frt. alld. lb. .26 - .30¾
l.c.l., frt. alld lb. .27 - .31¾
tanks, frt. alld lb. .24 - .29
Nutgalls, Aleppo, bgs. lb. .38 - —
Chinese, bgs lb. .45 Nom.
Nutmeg, East Indian, whole, bgs lb. .38 - —
shrivels, bgs. lb. .37 - —
West Indian, bgs. lb. .29½- —
Nux vomica, bls lb .10 .12
powdered, bbls., bxs lb. .15 .17

O

Octane, indust., tanks, Bayonne, N. J gal. .19 —
Baytown, Tex gal. .15¾- —
Borger, Tex gal. .15¾- —
1-Octanol, tech., dms., c.l., dlvd. lb. .35 - —
l.c.l., dlvd lb. .37 - —
tanks dlvd lb. .32½- —
Octyl phenol, bgs., c.l., works lb. .23¼- —
l.c.l., works lb. .23¾- —
tanks, works lb. .22½- —
Drum prices for octyl phenol are 1c. higher.

(Essential oils prices listed below are f.o.b. New York, with differences between high and low quotations due to differences in quantity, quality or in individual suppliers' views.)

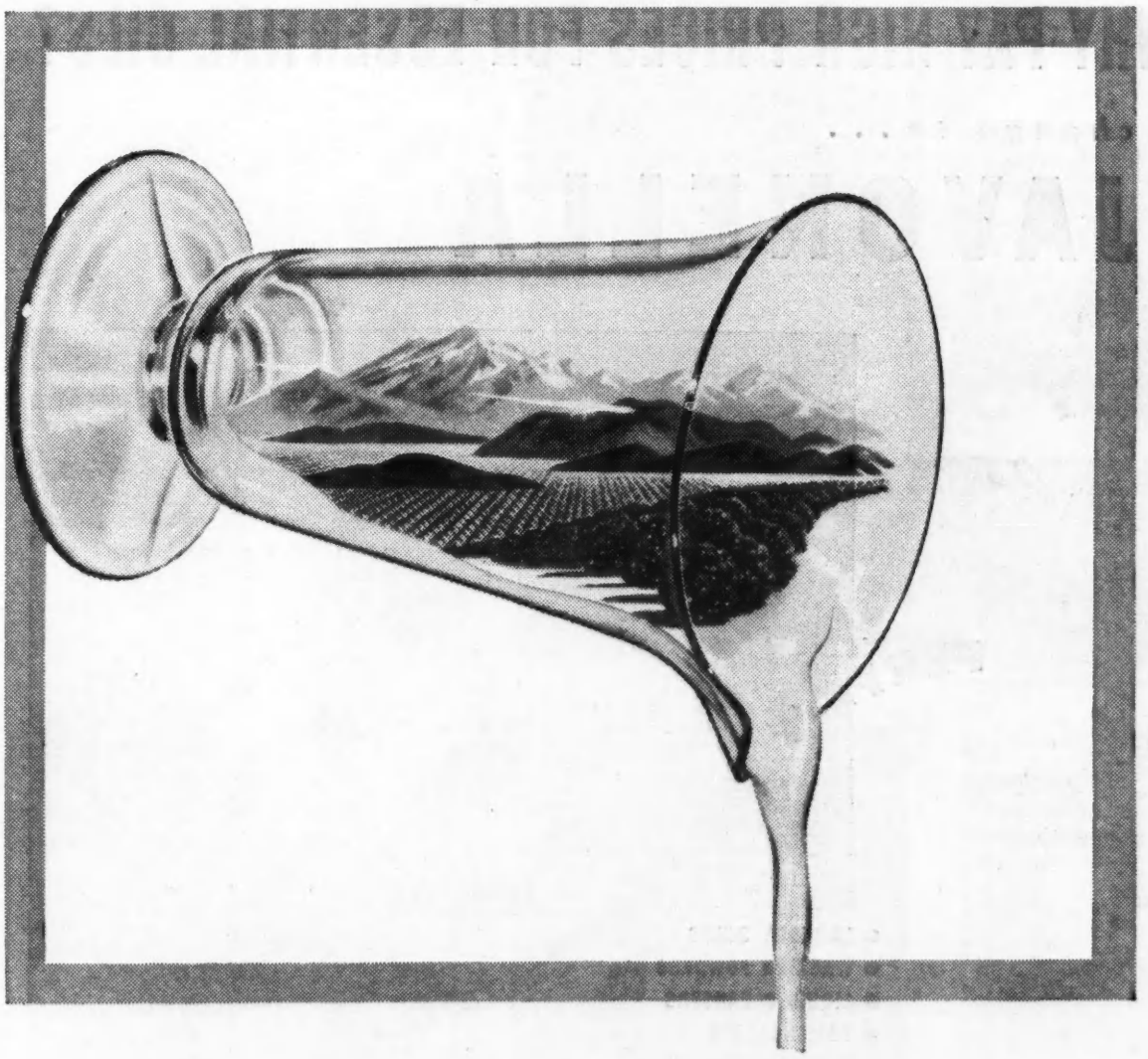
Oil, abies siberica, cns lb. 2.05 2.55
Almond, artificial, bitter (see Benzaldehyde).
natural, bitter, F.P.A., bots lb 3.00 3.40
NF, bots. lb 3.25 3.75
sweet, USP, dms., cns lb. .55 .90
Allspice (see Oil, pimento).
Amyris, dms. lb. 1.40 - 1.85
Angelica root, bots lb. 66.00 -100.00
seed, bots lb. 56.00 -95.00
Aniline (see A).
Anise, USP, dms lb. 3.50 - 4.00
Apricot, kernel, USP, dms lb. .45 .50
Avocado, cns lb. 3.25 —
Babassu, crude, tanks lb. No stocks.
Bay, NF Puerto Rican, 50-55% cns lb. 1.55 - 2.00
55-60%, cns lb. 1.65 - 2.10
West Indian, 50-55%, cns., dms. lb. 1.45 2.25
Bergamot, nat., NF, Italian, cns. lb. 10.90 -13.00
Birchtar, crude, cns lb. 1.50 - 1.90
rectified, NF, cns lb. 2.00 - —
Bois de rose, Brazil, dms lb. 4.50 - 6.00
Mexican (see Oil, lignaloe wood).
Bone, dms., works lb. .65 .70
Cajeput, native, cns lb. 1.90 - 2.10
redist., USP, cns lb. 2.40 - 2.80
Calamus, bots lb. 12.00 -20.00
Camphor, sassafrassy, dms lb. .38 - .45
white, dms. lb. .31 - .38
Cananga, native, cns lb. 7.85 -10.25
rectified, cns lb. 12.50 -14.00
Caraway, NF, cns lb. 3.50 - 5.00
Capsicum (see Capsicum oleoresin).
Cardamom, NF, bots lb. 36.00 -50.00
Cassia, USP (see Oil, cinnamon, USP).
Castor, blown, dms., c.l. lb. .20 - —
l.c.l. lb. .2150- —
dehydrated, bodied, dms., c.l. lb. .2260- —
l.c.l. lb. .2310- —
tanks lb. .2160- —
unbodied, dms., c.l. lb. .2110- —
l.c.l. lb. .2160- —
tanks lb. .2010- —
hydrogenated, bgs., l.c.l. lb. .2350- .2450
No. 3, tech., dms., c.l. lb. .1775- —
l.c.l. lb. .1825- —
tanks lb. .1675- —
No. 1, Brazilian, tanks lb. .15½- .15¾
sulfonated, 50%, dms., l.c.l. lb. .13½- .14
75%, dms., l.c.l. lb. .17 .17½
USP, dms., c.l. lb. .1800- —
l.c.l. lb. .1850- —
tanks lb. .1700- —
refd. and deodorized, dms., c.l. lb. .1950- —
l.c.l. lb. .20 - —
tanks lb. .1850- —
Cedarleaf, cns., dms lb. 2.25 - 3.00
Cedarwood, cns., dms lb. 1.00 - 1.30
Celery seed, bots lb. 13.00 -21.00
Chamomile, blue, Hungarian bots. lb. 175.00 -280.00
Chiriawood (see Oil, tung).
Cinnamon bark, bots lb. 28.00 -45.00
leaf, cns. lb. 1.25 - 3.25
USP, cns., dms., (Cassia) lb No stocks.
Citronella, Ceylon, cns., dms lb. 1.10 - 1.75
Java, true, dms lb. 1.50 - 2.00
Java-type, cns. lb. 1.50 - 2.00
Clove, USP, cns., dms lb. 3.25 - 4.50
leaf, unrectified, dms lb. 1.85 - 2.20
Coconut, crude, tanks, N. Y lb. .12¾- —
Pac. Coast lb. .12 - —
refd., Cochin type, tax incl. ret. dms., l.c.l lb. .20¼- —
deodorized, tax incl. non-ret. dms, c.l lb. .22 - —
Cod, Newfoundland, dms lb. .09½- .10
Codliver, USP, dms gal. 1.50 - 1.60
Copaiba, cns lb. 1.50 - 2.50
Coriander, USP, bots lb. 14.75 -18.00
Corn, crude, tanks, works lb. .13 - —
foots (soapstock), acid 95%, tanks, N. Y lb. .04½- —
refd., salad, dms lb. .17¾- .18
tanks lb. .16¼- —
Costus, bots. oz. 9.00 - —
Cottonseed, crude, tanks, South-East lb. .12⅜- —
Valley lb. .12½- —
Texas lb. .12 - —
foots (soapstock), acid 95%, tanks, N. Y lb. .03¾- —
raw, 50%, tanks, same basis. lb. .01¾- —
refined, salad, dms lb. .17¾- .18
tanks lb. .16¼- —

Oil, creosote (see Creosote, coaltar).
Crude (see Petroleum, crude).
Cubeb, cns lb. 4.50 - 6.00
Cumin, bots., cns lb. 4.15 - 5.75
Cypress, bots. lb. 5.50 —
Degras (see D).
Dillseed, bots. lb. 2.80 - 4.25
Dillweed, dom., bots., dms lb. 3.75 - 5.30
Dip (see D).
Erigeron, cns. lb. 5.50 7.50
Eucalyptus, NF, rectified, 70-80%, dms. lb. .67 - 1.00
80-90%, dms. lb. .85 - 1.25
Fennel, sweet, USP, cns lb. 2.30 3.25
Fir, Canada, cns lb. 2.35 2.80
Fish, refined, alkali, dms lb. .1350- .1450
kettle-bodied, dms. lb. .1580- .1680
light-pressed, dms. lb. .1200- .1300
tanks lb. .10½- —
Fishliver, crude, for feeds or concentrating, 4,000 to 12,000 A units per gram, dms., 1,000,000 units. .08 .09
10,000 to 20,000 A units per gram, dms., 1,000,000 units. .09 .10
25,000 to 35,000 A units per gram, dms., 1,000,000 units. .09 - .10
40,000 to 55,000 A units per gram, dms., 1,000,000 units .10½ .11
100,000 A units per gram, dms 1,000,000 units. .12 - .14
200,000 A units per gram, dms 1,000,000 units. .12 .14
300,000 A units per gram, dms. 1,000,000 units. .12 - .14½
400,000 A units per gram, dms 1,000,000 units. .12 .14½
500,000 A units per gram, dms 1,000,000 units. .12 .14½

Prices above are based on the USP XIV method of conversion, Morton-Stubbs Corrected E x 1900.

Oil, fusel (see F).
Garlic, pure, bots oz. 6.50 - 9.50
Gaultheria (see Oil, wintergreen).
Geranium, Algerian, cns lb. 10.50 -12.00
Bourbon, cns lb. 10.75 -13.50
Turkish (see Oil palmarosa)
Ginger, dist., bots lb. 12.25 -17.50
Grapefruit, dms. lb. 2.50 - 3.25
Grease, No. 1, dms. lb. .12 - .12½
extra, winter, strained, dms lb. .16 - .16½
prime, burning, dms. lb. .17 - .17½
Guaiacwood, cns lb. 1.40 1.90
Hemlock, cns. lb. 2.70 - 3.80
Juniper berry, NF, VIII, bots lb. 2.75 - 4.00
twice rectified, bots lb 3.60 7.00
Tar, NF (see Juniper tar).
Wood, tech., cns lb. .42 - .65
Lard (see Oil, grease).
Laurel leaf, dms, cns lb 9.75 -12.50
Lavandin, dms., cns lb. 2.00 - 2.35
Lavender flower, USP, French, 30-32% ester, cns lb. 3.15 - 4.70
38-40% ester, cns lb. 5.60 - 9.00
40-42% ester, cns lb. 7.50 -10.00
Spike, Spanish, cns lb. 1.60 - 2.00
Lemon, USP, Calif., cns., dms lb. 6.35 - 8.00
Messina, cns. lb. 6.05 - 9.00
terpeneless, bots lb 32.00 -35.00
Lemongrass, cns., dms lb. 1.80 - 2.00
Lignaloe wood, Mex., cns lb. 3.70 - 4.50
Lime, distilled, Mexican, cns lb. 3.75 - 6.00
West Indian, cs lb. 4.45 - 7.25
expressed, West Indian, cns lb 7.75 8.50
terpeneless, bots lb. 29.50 100.00
Linseed, raw, dms., c.l., N. Y. lb. .1825- —
l.c.l. lb. .1850- .1875
tanks, f.o.b. Minneapolis lb. .1550- —
New York lb. .1675- —
tankwagon, New York lb. .1705- —
Boiled linseed oil, .006c. per lb. higher.

Oil, mace, dist., cns., dms lb. 3.00 - 4.25
Mandarin (see Oil, tangerine).
Menhaden, crude, tanks, works, Atlantic Coast lb. .07¼- —
Gulf ports lb. .07¾- —
Mineral, white (see Oil, white mineral)
Mirbane (see Nitrobenzene).
Mustard seed, nat., dms. lb. .18 Nom.
synthetic, cans, dms. lb. 1.00 - 1.35
Neatsfoot, 15° cold test, dms lb. .33 .34
20° cold test, dms lb. .32 .33
30° cold test, dms lb .30 .31
Neroli, NF, French, bots lb. 85.00 -260.00
Spanish, bots lb. 35.00 -85.00
Nutmeg, USP, dist., East Indian, cns. dms lb 2.55 3.65
West Indian, cns. dms lb 2.60 3.65
Ocotea, cymbarum, dms lb. 1.10 - 1.50
Oiticica, liquid, dms lb. .16¼- .16¾
tanks lb. .15 - —
Oleo, extra, dms lb. .19½- .19¾
Olibanum, bots. lb. 5.50 - 7.65
extra, dms. lb 4.00 —
Olive, edible, dms., duty paid gal. 2.30 - 2.40
Orange, sweet, dist., cns lb. 40 80
expressed, USP Brazilian, cns., dms lb. No stocks
Calif., cns., dms. lb. .60 - 1.25
Florida, cns., dms lb. .45 - 1.25
Messina, cns lb 3.85 5.85
West Indian, cns., dms lb 2.50 3.65
sesquiterpeneless, bots lb. 65.00 -120.00
Origanum, Spanish, cns lb 1.95 2.85
Palm, clarified, dms lb. .1240- .1250
kernel, denat., tanks lb. .12 - —
Palmarosa, cns. lb. 8.00 - 9.50
Paraffin, pale, 100-110 vts., at 100 F tanks East Coast refinery gal .14 —



THE LEADING ORANGE OIL WITH CALIFORNIA FLAVOR

There's a reason for the growing popularity of Exchange Oil of Orange. Only Exchange Brand combines the flavor and aroma of California oranges with *Exchange* quality. Carefully selected oranges from the famous California groves of Sunkist Growers are processed to scientific specifications in modern California plants. You receive distinctive flavor and fragrance... in addition to unmatched uniformity of strength.

Sunkist Growers
PRODUCTS DEPARTMENT • ONTARIO, CALIFORNIA

Produced by
The Exchange Orange Products Co.
Ontario, California

Distributed in the U. S. exclusively by
DODGE & OLCOTT, INC.
180 Varick St., New York 14, N. Y.
FRITZSCHE BROTHERS, INC.
76 Ninth Ave., New York 11, N. Y.

Exchange
OIL OF ORANGE U. S. P.

Oil, Patchouli—Peanut Meal

Oil, patchouli, dms ..... lb. 8.00 - 9.50
Peach kernel, USP, (see Oil apricot kernel).
Peanut, crude, tanks, f.o.b. mills. lb. .20 Nom.
refined, dms. ..... lb. .24½- .25
tanks ..... lb. .23 Nom.
Pennyroyal, USP, imported, cns lb. 1.90 - 2.50
dms lb. 1.60 - 2.40
Peppermint, natural, dms ..... lb. 6.25 - 7.00
redist., USP, dms ..... lb. 6.50 - 7.50
Persic, USP (see Oil, apricot kernel).
Petitgrain, South American, cns., dms lb. 4.00 - 5.00
Pimento, berry, NF, dms ..... lb. 6.00 - —
leaf, cns ..... lb. 2.35 - 3.00
Pine, dest-dist., dms., l.c.l., works. lb. .11¼- —
ex-whse. ..... lb. .13¼- —
steam dist., dms. ex whse., N.Y.C. lb. .151 - —
Pineneedle, Siberian (See Oil, abies siberica).
Rapeseed, tankcars ..... lb. .17 - —
Red (see Acid, oleic).
Rice bran, clarif., dms., l.c.l. lb. .17½- .18
tanks, divd. E ..... lb. .16 Nom.
Rose, natural, Bulgarian, bots oz. 43.50 -62.25
Rosemary, Spanish, USP, cns., dms. lb. .65 - 1.00
tech., cns., dms ..... lb. .50 - .70
Rue, bots ..... lb. 1.65 - 2.30
Safflower, dms., c.l., Atl. coast. lb. .1910- —
tanks, same basis ..... lb. .1760- —
Sage, clary bots ..... lb 20.00 -25.00
Dalmatian, cns. ..... lb. 5.50 - 7.25
Spanish, cns. ..... lb. .90 - 1.25
Sandalwood, NF, cns ..... lb. 10.50 -12.00
Sardine, crude, tanks, Pac. coast lb. No stocks.

Oil, sassafras, artificial, dms .... lb. .90 - 1.10
natural Brazilian (See Oil, ocotea cymbarum)
domestic, USP, cns., dms. lb. 1.75 - 2.20
Savin, cns. ..... lb. 2.75 - —
Savory, cns ..... lb. 4.25 - —
Sesame, refd., dms ..... lb. .36 - .37
Shingle stain, tar distillate, dms., c.l., works. lb. .33 - —
l.c.l., works ..... lb. .35 - —
tanks, works ..... lb. .23 - —
Snakeroot, Canada, cns ..... lb. 28.50 -31.00
Soybean, crude, tanks, Decatur, lb. .11⅞- .12
foots (soapstock), acid, 95%, tanks, N. Y. lb. .04¾- —
raw, 50%, tanks, N. Y. .... lb. .02¼- —
refd., alkali, dms ..... lb. .16 - .16½
tanks ..... lb. .14½- —
clarified, dms. ..... lb. .15½- .16
tanks ..... lb. .14 - —
salad, dms. ..... lb. .16½- .16⅝
tanks ..... lb. .14⅝- —
Spearmint, USP, dms ..... lb. 3.85 - 5.50
Sperm, bleached winter, 45°, dms. lb. .15¾- .16½
tankcars ..... lb. .14 - —
nat., winter, 45°, dms ..... lb. .1475- .1550
tankcars ..... lb. .1300- —
Spruce, cns., dms ..... lb. 2.10 - 2.75
Sweet birch, USP, Northern, cns. lb. 4.25 - 9.50
Southern, cns ..... lb. 2.50 - 3.00
Tall, crude, dms., c.l., works ... lb. .03 - —
tanks, works ..... lb. .02 - —
dist., dms., c.l., works ..... lb. .07¼- .07½
tanks, works ..... lb. .06 - —
refd., dms., c.l., works ..... lb. .06¼- —
l.c.l., works ..... lb. 06½- —
tanks, works ..... lb. .05 - .05¼
Tallow, acidless, dms ..... lb. .10¼- .10½

Oil, tangerine, Floridian, dms .... lb. 2.75 - 5.35
Tansy, dms. ..... lb. 7.75 - 9.00
Tar, pine, coml., dms., c.l., works. gal. .42½- —
l.c.l., works ..... gal. .50½- —
whse. ..... lb. .0678- —
tanks, works ..... gal. .33½- —
rectified, NF, dms., incl., l.c.l., works, South. gal. .90 - —
whse., N.Y.C. gal. 1.00 - —
Tar acid (see 1)
Theobroma (see Cocoa butter).
Thyme, NF, red, cns., dms lb. 1.70 - 3.75
white, cns. ..... lb 1.95 - 4.00
tech., white, cns ..... lb. .40 - 1.85
Tung, dms., c.l., N. Y. ..... lb. .23 - —
l.c.l., same basis ..... lb. .23½- .23¾
tanks, N. Y. ..... lb. .21½- —
domestic mills ..... lb. .23½ Nom.
Turkey red (see Oil, castor, sulfonated).
Turpentine, NF, cns., dms .. lb .20 - .45
Vetiver, Bourbon, cns ..... lb. 14.00 -17.50
Haitian, cns ..... lb. 11.80 -21.00
Java, cns. ..... lb. 22.50 -40.00
Wheat germ, 5-gal. dms .... gal. 10.00 -13.00
White mineral, tech., 50-65 vis., non-ret. dms., c.l., f.o.b. N. Y. gal. .51½- .54½
65-75 vis., non-ret., dms., c.l., same basis gal. .52½- .55
l.c.l., same basis gal. .57½- .58½
80-90 vis., non-ret., dms., c.l., same basis gal. .53½- .56½
l.c.l., same basis gal. .58½- .59½
125-135 vis., non-ret., dms., c.l., same basis gal. .59½- .62½
l.c.l., same basis gal. .64½- .65½
145-155 vis., non-ret., dms., c.l., same basis gal. .66 - .68½
l.c.l., same basis gal. .71 - .71½
175-185 vis., non-ret., dms., c.l., same basis gal. .69½- .73
l.c.l., same basis gal. .74½- .75

Oil, white mineral, USP, 200-210 vis., non-ret., dms., C.l., same basis gal. .73½- .75
l.c.l., same basis gal. .77½- .78
345-355 vis., non-ret., dms., c.l., same basis gal. .77 - .80
l.c.l., same basis gal. .83 - .85
Wintergreen, USP, nat., Northern, cns. lb. 6.35 -10.30
Southern, cns lb. 3.20 -19.50
synthetic (see Methyl salicylate).
Wood (see Oil, tung).
Wormseed, cns. ..... lb. 6.60 - 8.00
Wormseed, cns. ..... lb. 6.00 - 8.00
Ylang-ylang, Bourbon, bots .... lb. 17.00 -30.00
extra, bots ..... lb. 28.00 -40.00
Madagascar, bots ..... lb No stocks
Oleostearine, bbls. ..... lb. .13 - .13½
Opium, USP, cns ..... lb. 19.20 -19.45
gran., USP, cns ..... lb. 21.65 -21.80
powd., USP cns ..... lb. 21.65 -21.90
Orange, cadmium lithopone, bbls., frt. alld. E. of Rockies lb. 1.56 - —
Chrome, CP., bbls., dlvd. N of Tenn. and N. C., E. of Miss. R., include Davenport, Tenn., and E. of Minneapolis, Rock Island, St. Louis, St. Paul lb. .31 - —
Chrome orange prices are ½c. higher dlvd. Ala., Fla., Ga., La. (Shreveport), 1½c. Miss., N. C., S. C., Tenn., Dallas and Ft. Worth, Tex., 1½c. El Paso, Tex., 2c. Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph, 1.6c. higher dlvd. Pac. Coast, for Denver, Pueblo, Salt Lake City, Wichita prices are equalized with Chicago.
Dinitroaniline toner ..... lb. 1.30 - —
Mineral, American, bbls, l.c.l., works lb. .1985- .2005
Molybdated, bbls. ..... lb. .44 - —
o-Nitroaniline toner, kgs ..... lb. 1.15 - —
Orange peel bitter, Haitian, bls lb. .14 - .16
sweet, bls ..... lb. .16 - .18
Orris root, Florentine, bls. .... lb. .35 - .40
powd., bbls., bxs ..... lb. .40 - .43
Verona, bls ..... lb. .29 - .31
powdered, bbls., bxs ..... lb. .35 - .40
Orthoaminobiphenyl (see o-Aminobiphenyl).
Orthoanisidin (see o-Anisidine).
Orthochloroanilin (see o-Chloroaniline).
Orthochlorobenzaldehyde (see o-Chlorobenzaldehyde).
Orthochloroparanitroanilin (see 2-Chloro-4-nitroaniline).
Orthochlorophenol (see o-Chlorophenol).
Orthocresol (see o-Cresol).
Orthodichlorobenzene (see o-Dichlorobenzene).
Orthonitroanilin (see o-Nitroaniline).
Orthonitrochlorobenzene (see 2-Nitro-4-chlorobenzene).
Orthonitrobiphenyl (see o-Nitrobiphenyl).
Orthonitroparachlorophenol (see 2-Nitro-4-chlorophenol).
Orthonitrophenol (see o-Nitrophenol).
Orthonitrotoluene (see o-Nitrotoluene).
Orthophenetidin (see o-Phenetidine).
Orthophenetidin (see o-Phenetidine).
Ortho-tertiary-amylphenol (see o-tert-Amylphenol).
Orthotolidin (see o-Tolidine base).
Orthotoluidin (see o-Toluidine).
Osage orange, crystals, No. 1, bbls., l.c.l lb. .40 - —
extract, liquid, No. 1, bbls., l.c.l lb. .19 - —
Ouabain, USP, bots ..... grm 3.00 - 4.00
Oxyquinolin sulfate, cns., 100-lb. lots, works lb 4.75 - 5.00
smaller lots, works ..... lb. 4.92 - 5.17

P

Pancreas substance, assay 1:75 bots., 5-lb. lots or more lb. 4.00 - —
Pancreatin, USP, bots ..... lb. 1.90 - 2.10
Papain, USP, African, bots ..... lb. 4.00 - 4.50
Ceylon ..... lb. 3.00 - 3.50
Papaverine, nat. or syn. hydrochloride, USP, cns., 25 oz. to 100 oz. lots oz. 5.00 - —
smaller lots ..... oz 5.05 - 5.20
Sulfate, cns ..... oz. 7.10 - 7.35
Paprika, Roumanian, bgs. ..... lb. .30 - .33
Spanish, bgs. ..... lb. .37 - .39
Yugoslavian, bgs. ..... lb. .38 - —
Para-anisidin (see p-Anisidine).
Para-acetylaminobenzaldehyde thiosemicarbazone (see p-Acetylaminobenzaldehyde thiosemicarbazone).
Para-aminophenol (see p-Aminophenol).
Parachloroanilin (see p-Chloroaniline).
Parachlorobenzaldehyde (see p-Chlorobenzaldehyde).
Parachloro-orthonitroanilin (see 4-Chloro-2-nitroaniline).
Parachlorophenol (see p-Chlorophenol).
Paracresol (see p-Cresol).
Paradibromobenzene (see p-Dibromobenzene).
Paradichlorobenzene (see p-Dichlorobenzene).
Paraffin, crude scale, white, 121°-123°F, ASTM, solid, c.l., ref'y lb. .0710- —
fully refd., 122°-124°F, ASTM, slabs loose, c.l., ref'y lb. .0845- —
125°-127°F, ASTM, slabs loose, c.l., ref'y lb. .0845- —
130°-132°F., ASTM, slabs loose, c.l., ref'y lb. .0855- —
132°-134°, ASTM, slabs, loose, c.l., ref'y lb. .0855- —
135°-137°F., ASTM, slabs loose, c.l., ref'y lb. .0855- —

Prices for paraffin in bags and ctns., c.l. 7/10c. per lb. higher; 1,000 to 9,999 lbs., 2.7c. per lb. higher and under 1,000 lbs., 3.7c. per lb. higher.

AMP temperatures are an arbitrary 3° F. higher than ASTM.

Paraformaldehyde, 91%, flake, bgs., c.l., frt. alld lb. .10¾- —
l.c.l., frt. alld ..... lb. .12¼- —
powd., bgs., c.l., frt. alld lb. .15½- —
l.c.l., frt. alld ..... lb. .17 - —
USP X, fib. dms., c.l. ..... lb. .183 - —
10,000-lb. lots ..... lb. .193 - —
1,000-lb. lots ..... lb. .193 - —
smaller lots ..... lb. .208 - —
Paraldehyde, tech., 95%, 55-gal. dms., c.l. works lb. .13½- —
l.c.l., works ..... lb. .14½- —
tanks, works ..... lb. .11½- —
Paranitroanilin (see p-Nitroaniline).
Paranitrochlorobenzene (see 4-Nitro-2-chlorobenzene).
Paranitrophenol (see p-Nitrophenol).
Paranitrotoluene (see p-Nitrotoluene).
Paraphenetidin (see p-Phenetidine).
Paraphenylenediamine (see p-Phenylenediamine).
Paraphenylphenol (see p-Phenylphenol).
Para-tertiary-amylphenol (see p-tert-Amylphenol).
Para-tertiary butylphenol (see p-tert-Butylphenol).
Parathion, spray powder, 15%, dealers, dms., works lb. .48 - .49
tech., dms., works ..... lb. 1.62 - 1.64
Paratoluenesulphonamide (see p-Toluenesulfonamide).
Paratoluidine (see p-Toluidine).
Paris green, dealer, distributor, dms., c.l., works, frt. alld. on 98 lbs. or over lb. .36 - .40
l.c.l., same basis ..... lb. .37 - .53
Passion flower herb, bls ..... lb .20 - .21
Peanut meal, 45%, old process, bgs., mills ton. 78.00 - —
solvent process, bgs., same basis ton. 75.00 Nom.

WHY PAY HIGH PRICES FOR ESSENTIAL OILS?

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JAVONELLA

PERFECT FOR PERFUMING...

- LAUNDRY SOAPS
- WASHING POWDERS
- LIQUID CLEANSERS
- POLISHES, ETC.

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- It's a manufactured article . . . free from the price fluctuations of natural essential oils such as Citronella, Sassafras, etc.
- Its high quality never varies, enabling you to manufacture uniformly dependable products.
- Always lower in cost than the natural oils, particularly now with citronella prices so high. Its use results in production economies and higher profits without lowering quality standards.

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FELTON CHEMICAL COMPANY, INC.
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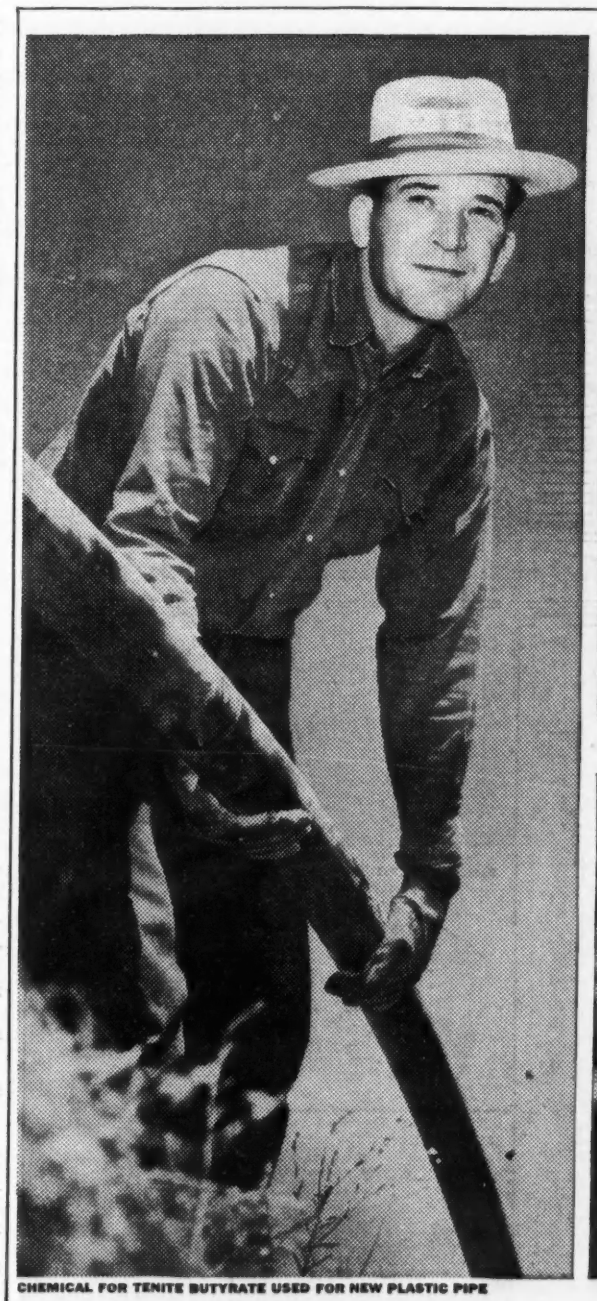
PLANTS: Brooklyn, N. Y. • Los Angeles, Cal. • Montreal, Que. Versailles (S & O) France

SALES OFFICES: Atlanta • Boston • Chicago • Cleveland Philadelphia • St. Louis • Toronto

Stocks Carried in Principal Cities

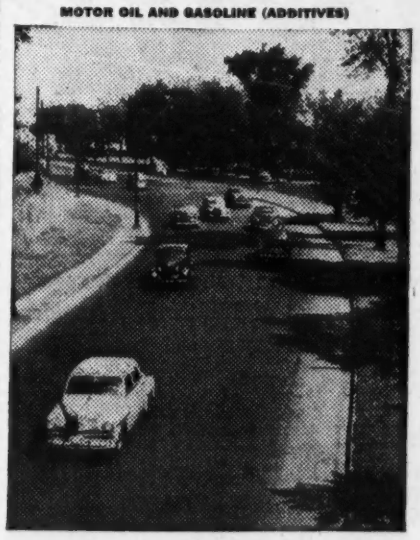
Pectin, citrous, NF, powd., bbls	lb.	2.05	- 2.06
tech., powd. bbls	lb	1.50	- —
imported, Danish, ex whse	lb.	1.28	- —
Penicillin, crystalline, potassium, sterile, bulk, 1,000,000 units.		.07½	- .08
Procaine, bulk, 1,000,000 units.		.07½	- .08
Sodium, sterile, bulk, 1,000,000 units.		.07½	- .08
Pentachlorophenol, dms., c.l., works, frt. equald	lb.	.21	- —
l.c.l., same basis	lb.	.24	- .29
truckload, 20,000 lbs. min. same basis	lb.	.21¼	- —
Pentaerythritol, tech., bgs., c.l., works	lb.	.32	- —
l.c.l., works	lb.	.33	- —
Di- and tri-isomers (see Dipentaerythritol and Tripentaerythritol).			
Pentane, industrial, tanks, Tex. refy	gal.	.14¼	- —
Pepper, black, Malabar, spot, bgs	lb.	.64	- —
red, Gondar, spot, bgs	lb.	.28	- .30
Japanese, hontaka, bgs	lb.	.35	- —
birdseyes, bgs., new crop	lb.	.60	- —
Mombasa, bgs., ship't	lb.	.26	- —
Nigerian, bgs	lb.	Nominal.	
Turkish, bgs.	lb.	.26	- —
Zanzibar, bgs.	lb.	No prices.	
white, bgs.	lb.	.67	- —
Peppermint leaves, USP, dom., bls., dms	lb.	.70	- .75
imported, bls.	lb.	1.25	- —
Pepsin, NF, 1:3,000 bulk	lb.	3.45	- 3.50
Perchloroethylene, dms., c.l., or truckloads, dlvd. E	dm.	85.00	- —
dlvd. W	dm.	88.50	- —
l.c.l., dlvd. E	dm.	95.00	- —
dlvd., dom., W	lm.	98.50	- —
tanks, dlvd. E	lb.	.10¾	- —
dlvd. W	lb.	.11¼	- —
Peru balsam, dms	lb.	1.30	- 1.70
Petrolatum, amber, dms., c.l., refy.	lb.	.05	- .05⅜
l.c.l., dlvd	lb.	.05¾	- .07
tanks, refy	lb.	.03¼	- .04⅛
cream, dms., c.l., refy	lb.	.06⅛	- .07⅛
l.c.l., dlvd	lb.	.08½	- .08¾
tanks, refy	lb.	.04⅜	- .05⅜
extra, amber, dms., c.l., rfy	lb.	.05¼	- .05⅞
l.c.l., dlvd	lb.	.07	- .07¼
tanks, refy	lb.	.02½	- .04¾
USP, white, lily, dms., c.l., refy	lb.	.06⅝	- .07½
l.c.l., dlvd	lb.	.08¼	- .09⅛
tanks, refy	lb.	.04⅞	- .06
snow, dms., c.l., refy	lb.	.07½	- .07¾
l.c.l., dlvd	lb.	.09⅜	- .09⅝
tanks, refy	lb.	.05⅜	- .05⅞
soft, dms., c.l., refy	lb.	.06¾	- .07¾
l.c.l., dlvd	lb.	.08½	- .08¾
tanks, refy	lb.	.05	- .05⅜
yellow, soft, dms., c.l., refy	lb.	.05¼	- .05⅞
l.c.l., dlvd	lb.	.06⅞	- .07⅛
tanks, refy	lb.	.03½	- .05⅞
Petroleum, crude, bulk, at wells, California	bbl.	1.42	- 3.53
Illinois	bbl.	2.69	- 2.90
Kentucky	bbl.	2.62	- 2.90
Louisiana-Arkansas	bbl.	2.38	- 3.23
Montana	bbl.	1.53	- 2.90
Oklahoma-Kansas	bbl.	2.48	- 2.90
Pennsylvania, Penn. grade.	bbl.	2.70	- 3.23
Texas, East	bbl.	2.90	- —
Gulf Coast	bbl.	2.63	- 3.23
North, North-Central	bbl.	2.48	- 2.90
Panhandle	bbl.	2.48	- 2.90
West	bbl.	2.35	- 2.90
Wyoming	bbl.	1.53	- 2.90
Fuel oil, bunker C, No. 6, East Coast, Baltimore, Md.	bbl.	2.25	- —
Boston, Mass.	bbl.	2.29	- —
Charleston, S. C.	bbl.	2.20	- —
Jacksonville, Fla.	bbl.	2.18	- —
New York Harbor	bbl.	2.25	- 2.28
Norfolk, Va.	bbl.	2.23	- —
Philadelphia, Pa.	bbl.	2.20	- 2.22
Portland, Me.	bbl.	2.32	- —
Providence, R. I.	bbl.	2.29	- —
Savannah, Ga.	bbl.	2.23	- —
West Coast	bbl.	1.80	- 2.10
diesel, tanks, refy., California	gal.	.1025	- .133
New York	gal.	.096	- —
Penna., western	gal.	.105	- .1075
furnace, tanks, refy., Arkansas, No. 2	gal.	.08625	- —
No. 3	gal.	.0825	- —
N. Y. Harbor, No. 2	gal.	.092	- .096
Group 3, No. 1	gal.	.08875	- .09
No. 2	gal.	.0825	- .08375
No. 3	gal.	.07875	- .08125
range	gal.	.08875	- .09375
Pennsylvania, western, No. 1,	gal.	.105	- .1185
No. 2	gal.	.105	- .111
No. 3	gal.	.105	- .1075
Lacquer diluent, 150°-240°F., b.r., tanks, West Coast, ex tax, Los Angeles	gal.	.168	- .183
East coast, N. J., N. Y.	gal.	.19	- —
Group 3, benzol-type	gal.	.14125	- .14625
toluol-type	gal.	.13125	- .13375
Mineral spirits, reg., tanks, California, ex tax, San Francisco	gal.	.163	- —
East coast, N. J., N. Y.	gal.	.17	- —
Group 3	gal.	.11875	- —
tankwagon, Boston	gal.	.19	- —
Buffalo	gal.	.195	- —
Chicago	gal.	.279	- —
Cleveland	gal.	.22	- —
Newark	gal.	.18	- —
New York	gal.	.18	- —
Philadelphia	gal.	.185	- —
Pittsburgh	gal.	.18	- —
Providence	gal.	.195	- —
specially refd., tanks, refy., Watson, Calif.	gal.	.244	- —
Borger, Tex.	gal.	.24	- —
Houston, Tex.	gal.	.24	- —
Wood River, Ill.	gal.	.2625	- —
dlvd. N. J.	gal.	.32	- —
dlvd N. Y.	gal.	.33½	- —
tankwagon, N. J., dlvd.	gal.	.36	- —
N. Y., dlvd	gal.	.37	- —
Naphtha, cleaners, tanks, East Coast, N. J., and N. Y.	gal.	.17	- —
Group 3	gal.	.12875	- —
tankwagon, Newark	gal.	.18	- —
New York	gal.	.18	- —
Philadelphia	gal.	.185	- —
High solvency (see Petroleum sovlent, partial aromatic).			
V.M.&P., 225°-300°F., b.r., tanks, West Coast, Los Angeles.	gal.	.168	- —
Portland, Ore.	gal.	.174	- —
San Francisco.	gal.	.173	- —
Seattle, Wash.	gal.	.174	- —
East Coast, N. J., N.Y.	gal.	.18	- —
Group 3	gal.	.12875	- —
tankwagon, Boston	gal.	.205	- —
Chicago	gal.	.289	- —
Cleveland	gal.	.23	- —
Newark	gal.	.195	- —
New York	gal.	.195	- —
Philadelphia	gal.	.20	- —
Pittsburgh	gal.	.19	- —
Solvent, partial aromatic, tanks, East Coast, N. J., N. Y., 205°-284° F., b.r., 38° 43°C, m.a.p.	gal.	.24	- .26
19°-30°C, m.a.p.	gal.	.19	- .30
Petroleum solvent, partial aromatic 272°-387°, b.r., 31°C, m.a.p.,	gal.	.29	- —
27°-29°C, m.a.p	gal.	.29	- .31
19°C., m.a.p	gal.	.32	- —
310°-392°F. b.r., 30°-38°C. m.a.p.	gal.	.27	- .30
17°-19°C., m.a.p	gal.	.35	- .38
350°-425° F., b.r., 32°-35° C., m.a.p	gal.	.30	- .30½
25°C., m.a.p	gal.	.39	- —
18°-21°C., m.a.p	gal.	.35	- .42½
Rubber, tanks, Cal., ex tax, San Francisco	gal.	.173	- —
East Coast, N. J., N. Y.,	gal.	.18	- —
Group 3	gal.	.12875	- —
Stoddard, tanks, East Coast, N. J., N. Y	gal.	.17	- —
Group 3	gal.	.12375	- —
Pennsylvania, western	gal.	.15	- —
tankwagon, Boston	gal.	.19	- —
Chicago	gal.	.289	- —
Cleveland	gal.	.22	- —
Los Angeles, ex tax	gal.	.173	- —
Newark	gal.	.18	- —
New York	gal.	.18	- —
Philadelphia	gal.	.185	- —
Pittsburgh	gal.	.18	- —
Sulfonate, oil soluble, 60-62% sulfonic content, non-ret. dms., c.l., works	lb.	.16	- .18¼
l.c.l., works	lb.	.17	- .18½
tanks, works	lb.	.14	- .16½
50-55% sulfonic content, non-ret. dms., works	lb.	.15½	- —
l.c.l., works	lb.	.16½	- —
tanks, works	lb.	.12½	- —
o-Phenetidine, dms., works	lb.	1.00	- —
p-Phenetidine, dms., works	lb.	1.00	- —
Phenobarbital, USP, dms., 100-lb. lots	lb.	4.00	- —
Phenobarbital-sodium, USP, dms., 100-lb. lots	lb.	4.00	- —
Phenol, 90-92% (cresol 8-10%), non-ret. dms. c.l. frt. alld E. of Rockies	lb.	.15¾	- —
l.c.l., same basis	lb.	.16½	- —
tanks, same basis	lb.	.14	- —
82-84% (cresol 16-18%), non-ret. drums, c.l., same basis	lb.	.15¼	- —
l.c.l., same basis	lb.	.16	- —
tanks, same basis	lb.	.13½	- —
39° or above, tar distilled, non-ret. dms., c.l., same basis	lb.	.17¼	- .17¾
l.c.l., same basis	lb.	.18	- .18½
tanks, same basis	lb.	.15½	- —
USP, synthetic, dms., c.l., frt. alld	lb.	.17¾	- —
l.c.l., same basis	lb.	.18½	- —
tanks, same oasis	lb.	.16	- —
Phenolphthalein, USP, or yellow, bbls., dms., 2,000-lb. lots.	lb.	1.10	- —
smaller lots	lb.	1.12	- 1.17
Phenothiazine, NF, fib. dms., c.l., frt. adjusted	lb.	.53	- —
over 2,100 lbs., same basis	lb.	.55	- —
less than 2,100 lbs., same basis.	lb.	.57	- —
Phenyl acetate, dms., 100-lb. lots, works	lb.	.50	- —
Salicylate (see Salol.)			
Phenylacetaldehyde, soln., 50%, bots	lb.	2.40	- 2.70
100%, bots	lb.	4.00	- 4.65
Phenylacetamide, 125-lb. dms., works	lb.	1.10	- —
smaller dms., works	lb.	1.15	- 1.10
dl-Phenylalanine, dms., works	lb.	27.00	-37.50
1-Phenyl-3-carbethoxy pyrazolone-5, 250-lb. fib. dms., dlvd. E.	lb.	3.60	- —
smaller dms., dlvd. E	lb.	4.00	- —
Phenyldiethanolamine, dms., c.l., dlvd E.	lb.	.40	- —
l.c.l., dlvd. E	lb.	.41	- —
m-Phenylenediamine, dms., frt. alld.	lb.	.90	- —
p-Phenylenediamine, redist., dms., works	lb.	2.00	- —
tech., refd., dms., same basis	lb.	1.10	- 1.35
Phenylethanolamine, dms., c.l., works	lb.	.69¼	- —
l.c.l., same basis	lb.	70	- —
Phenylethyl acetate, bots.	lb.	1.35	- 1.95
b-Phenylethylamine, dms., works, 1,000-lb. lots	lb.	1.10	- —
smaller lots, works	lb.	1.15	- 1.40
Phenylethylphenyl acetate, bots	lb.	3.95	4.40
Phenylhydrazine base, CP, bots	lb.	3.00	- 3.07
Hydrochloride commercial, bgs., works	lb.	1.75	- —
purified, bots. works	lb	5.17	- —
1-Phenyl-3-methyl pyrazolone-5, 250-lb. lots, dlvd. E	lb.	1.70	- —
smaller lots, dlvd	lb.	2.00	- —
o-Phenylphenol, dms., l.c.l., works	lb.	.42	- .44
p-Phenylphenol, bgs., c.l., works	lb.	.35	- —
l.c.l., works	lb.	.39½	- —
Phloroglucinol, coml., fib. dms., works	lb.	6.40	- —
C.P., bots., fib. dms.	lb.	17.00	-17.25
tech., fib. dms., works	lb.	10.45	- —
Phosphate, defluorinated (see under D). Rock, Curacao, Atlantic ports, New Orleans	ton.	43.00	- —
Florida, land pebble, run-of-mine, washed, dried unground, bulk, c.l., mines, 68-66%, b.p.l., bulk, c.l., mines	long-ton.	4.69	- —
70-68%, b.p.l., c.l., same basis	long-ton.	5.09	- —

Pectin—Phosphate Rock, Florida



CHEMICAL FOR TENITE BUTYRATE USED FOR NEW PLASTIC PIPE

VARNISH, SHELLAC AND PAINT



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Isopropyl Acetate
Acetone
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Isopropyl Ether
Naphthenic Acids
Iso-Octyl Alcohol
Decyl Alcohol
Denatured Ethyl Alcohol

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PETROHOL 99
JAYSOL
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Denatured Ethyl Alcohol
Tridecyl Alcohol
Dicyclopentadiene
Isoprene
Butadiene
Ethyl Ether
Isopropyl Ether
Tetrapropylene
Tripropylene
Aromatic Tars
Benzene
Acetone
Methyl Ethyl Ketone

Phosphate Rock, Florida—Propylene Oxide

Phosphate rock, Florida, land pebble, washed, dried, ungrd., 72-70% b.p.l., c.s. same basis long-ton. 5.74 - —
75%-74% b.p.l. c.l., same basis long-ton. 6.74 - —
78-76%, b.p.l., c.l., same basis long ton. 7.74 - —

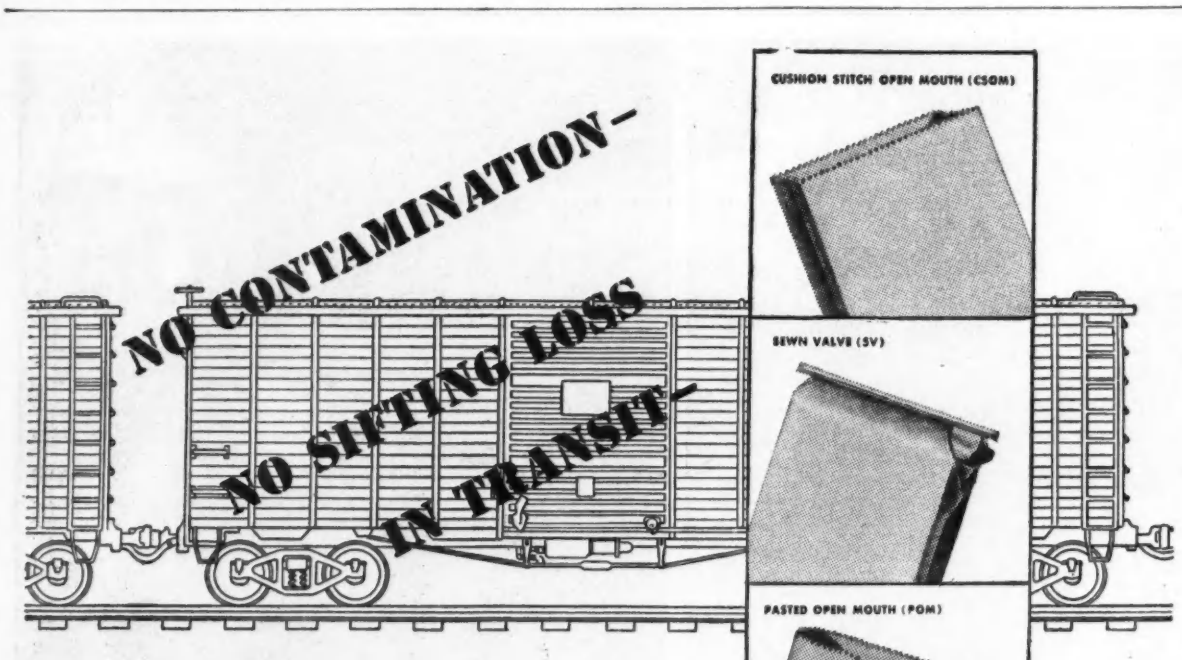
The above prices are based on fuel oil at $2.15 per bbl. and labor at $1.28, recent 3c. labor advance currently absorbed.

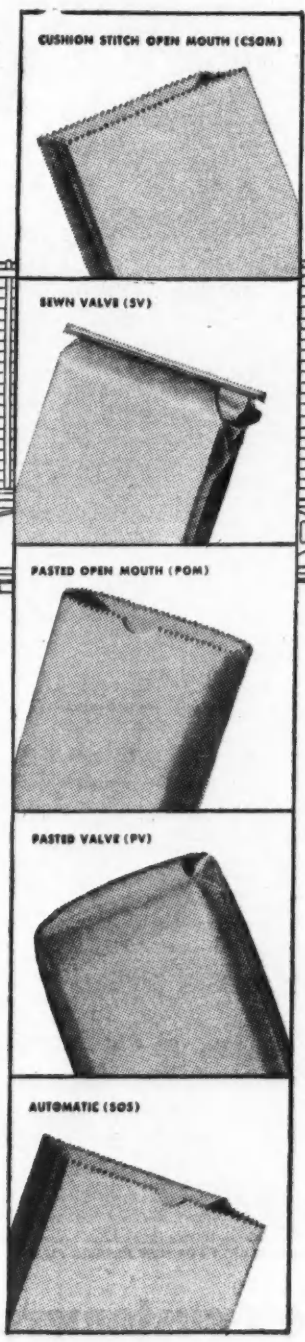
Phosphorus amorph., red, cs. lb. .46 - .47
dms lb 44 45
yellow, cns., works lb. 48 - .50
dms., c.l., works lb. 40 - —
t.c.l., works lb. 43 - —
Oxychloride, dms., c.l., works lb. .14 - —
t.c.l., dms., works lb .17 - —
tanks, works lb. .12½- —
Pentasulfide, soud, dms., c.l., works lb. .11½- —
t.c.l., dms., works lb. .13 .13½
Pentoxide, dms., c.l., works lb. .13½- —
t.c.l. works lb .16½- —
Sesquisulfide, tins, cs., works lb. .29 - —
export, dms. lb .31 .36
Trichloride, dms., c.l., works lb. .14 - —
t.c.l. works lb. .17 - —
tankcars, works lb. .12½- —
Phthalic anhydride, ogs, c.l., works, frt. equald lb. .20 - —
t.c.l. same basis lb. .2? - —
tanks, same basis lb. .19¼- —
Phthalimide, 97%-98%, dms., works, frt. alld lb. .65 .70
a-Picoline, ret., dms., c.l., works, frt. equald lb. .43½- —
t.c.l., works, frt. equald lb. .44 - —

b,g-Picoline, 5°, dms., c.l., works. lb. .32½- —
t.c.l., works lb. .33 - —
g-Picoline, 98%, dms., c.l., works. lb. 2.65 - —
Pilocarpine hydrochloride, NF, bots oz. 5.25 —
Nitrate, USP, bots., vials oz. 4.80 - 4.90
Pimento, Jamaican, bgs., Sept. shipt. lb. .70 - —
Mexican, bgs lb. .75 - —
Pink root, bls. lb. 3.00 - 3.25
d-Piperazine hexahydrate, French Codex, bots kilo. 8.00 - 8.50
Piperidine, 98% dms. frt. equald. lb. 2.90 - 3.00
Piperonyl butoxide, dms., dlvd. E lb 4.50 5.30
Cyclonene, dms., dlvd. E lb. 4.20 4.50
Pitch, coaltar, 140°-150°F, m.p. bulk, tanks, works ton.35.50 - —
Cottonseed, raw, dms., works lb. .02¼- .03
Linseed dms lb. .06 Nom.
Marine, dms. lb. .04¼ .05
Petroleum (see Asphalt, petroleum)
Soybean, dms. works lb 05 Nom
Tall, dms., works lb. .03¾ .04½
Plaster of Paris (see Gypsum).
Platinum metal, works oz.84.00 87.00
Pleurisy root, bls ro .45 .50
Podophyllum resin, NF, dms lb 6.75 —
Poke root, bls lb. .19 - .22
Polymyxin, bulk, dms., bots., 50 billion units or more. 1,000,000 units. .52 - —
25-50 billion units 1,000,000 units. .54 - —
1-25 billion units 1,000,000 units. .56 - —

Polyoxyethylene sorbitan monostearate, dms., 20,000-lb. lots, works lb. .41 - —
10,000-20,000-lb. lots, works. lb. .43 - —
smaller lots, works lb. .46 - .48
tristearate, dms., 20,000-lb. lots, works lb. .41 - —
10,000 20,000 lb. lots, works. lb. .43 - —
smaller lots, works lb. .46 - 48
Poppy seed, Argentine, bgs. lb. Nominal.
Polish, bgs. lb. .35 - .36
Dutch, bgs. lb. .32 - —
Turkish, bgs. lb. .30 - .31
Potash, caustic, reg., flake, 88-92%, dms., c.l., works. 100 lbs. 9.15 -
t.c.l., works 100 lbs.10 20 - —
liq. 45% basis, dms., c.l., works 100 lbs. 4.25 - —
t.c.l., same basis 100 lbs. 5.05 - —
tanks, same basis 100 lbs. 3.70 - —
solid, 88-92%, dms., c.l., works 100 lbs. 8.70 - —
t.c.l., works 100 lbs. 9.75 - —
Potassium acetate, NF, dms lb. .31 - .36
Bicarbonate, USP gran. dms lb. .22 - —
powd. dms lb. .24 - —
Bichromate, bgs., c.l., works lb. .15 - —
t.c.l., works lb. .15½- —
Potassium bichromate in dms. ¾c. higher.
Bitartrate, NF, dom., gran. or powd., bbls., 5,000 lbs. 1 shipt lb. .32½- —
smaller lots lb. .33 - .36
dms., c.l. lb. .32 - —
imp., kgs lb. .25 - .26
Bromate, bbls., 1,000 lbs. or more. lb. .50 - .52
25-200-lb. lots lb. .55 57
Bromide, USP, gran., bbls., kgs. lb. .34 —

Potassium carbonate, tech., calcined, bbls., c.l., works 100 lbs. 9.00 - —
t.c.l., same basis 100 lbs.10.05 - —
hydrated, 83-85%, bbls., c.l., works 100 lbs. 7.60 - —
t.c.l., works 100 lbs. 8.65 - —
USP, gran., bbls., dms lb. .16½- .16
powd. bbls., dms lb. .21 .23
Chlorate, cryst., dms., c.l., works. lb. .10¼- —
t.c.l., works lb. .11½- .12
powd., dms., c.l., works lb. .10¾- —
t.c.l. works lb. .12 12½
export, dms., New York lb. .12¾- .13½
NF gran. dms lb .?? .??
Chloride, USP, cryst., dms lb. .21 - .23
gran. dms lb. .15 .17
powd dms lb .24 .26
Chromate, tech., bgs lb. .50 - .50½
Citrate, USP gran., dms lb. .41 - —
powder, dms lb. .40½- .41½
Cyanide, dms., 500-lb. lots or more, works lb. .55 - —
smaller lots works lb .57 —
Dichromate (see Potassium bichromate).
Ferricyanide, kgs lb. .60 .63
Ferrocyanide, dms., ton lots lb. .22½- —
smaller lots lb. .23 - —
kgs. lb. .28 - —
Potassium fluoborate, fib. dms., c.l., works lb. .30 - —
t.c.l., works lb. .31 —
Fluoride, dms., works lb. .37 - .38
Gluconate dms lb. .75 .79
Glycerophosphate, 75% solution, cbys lb. 2.15 - 2.25
Guaiacolsulfonate, NF, dms lb. 2.10 - 2.30
Hydroxide, tech. (see Potash caustic).
USP, pellets 100-lb. dms. 1 to 100-dm. lots lb. .28½- .3?
Hypophosphite, NF, fib. dms., ton lots or less lb. 1.00 1.03
Iodide, dms. lb. 2.15 —
Manure salt 22% K_2O, bulk, mines unit-ton. .19 - —
Metabisulfite, gran., dms lb. .20 - .21
powd. dms lb. .25 —
Muriate, dom., 50-60% K_2O, bulk, Carlsbad, N. M. unit-ton. .39½- .40½
50-51% bag paper bgs., Carlsbad, N. M ton.24.50 - —
Nitrate, cryst., bbls., 10,000-ton lots 100 lbs.14.40 - —
smaller lots 100 lbs.14.65 -14.90
gran., bbls., 20-ton lots.100 lbs. 9.75 - —
smaller lots 100 lbs.11.10 -11.50
powd., bbls., 20-ton lots. 100 lbs.10.75 - —
smaller lots 100 lbs.12.00 -12.50
NF, gran., dms lb. .09¾- .11¾
Potassium nitrate in bags, 50c. per 100 lbs. less in kegs, $1 more.
Oxalate, neutral, tech., fine gran., bbls., dms lb. .30 - .32
Pentaborate, gran., bgs., c.l., works ton.189.00 - —
dms., ton lots, ex whse ton.293.50 - —
smaller lots, ex whse ton.29600 - —
Powdered Potassium pentaborate, $10.25 per ton higher
Perchlorate, dms., c.l., works lb. .15 - —
t.c.l., works lb. .16½- —
Permanganate, tech., dms., works lb. .22½- .23½
USP dms. works lb. .24¾- .30¼
Persulfate, dms., 5-ton lots, works, lb. .18 - —
1-ton lots, works lb. .20 - —
Phosphate, tetrabasic, bbls., works lb. .16½- .18½
Prussiate, red (see Potassium Ferricyanide). yellow (see Potassium Ferrocyanide).
Silicate, glass, bgs., c.l., works. 100 lbs.17.00 - —
t.c.l. 100 lbs.17 30 - —
Silicate, soln., clarif., 29° Be. 1:2.5, dms., c.l., works 100 lbs. 5.80 - —
t.c.l., 5 dms., or more, works 100 lbs. 6.55 - —
tanks, works 100 lbs. 5.45 - —
tech., 29° Be, 1:2.5, dms., c.l., works 100 lbs. 5.35 - —
t.c.l., 5 dms. or more, works 100 lbs. 6.50 - —
tanks, works 100 lbs. 5.00 - —
40.5° Be., 1:2.0, dms., c.l., works 100 lbs. 6.45 - —
t.c.l., 5 dms. or more, works 100 lbs. 7.20 - 7.60
tanks, works 100 lbs. 6.10 - —
Silicofluoride, bbls., works lb. .09 - .10
Stannate, dms., frt. alld. E lb. .682 - .748
Sulfate, agricultural, 49-51%, K_2O_5, bulk, works ton.35.00 - —
NF VII cryst. dms lb. .31 .33
gran. dms. lb. .18½- —
powder dms lb. .36½- .17
Sulfocyanide, NF, cryst. (see Potassium thiocyanate).
Thiocyanate, NF, cryst., dms lb. .84 - .94
tech., works lb. .77 - .79
Titanate, ctrs., c.l., works lb. .14 - —
5-ton lots, works lb. .14½- —
1-ton lot or less, works lb. .14¾- —
Potassium-magnesium sulfate, bulk, works basis 40% K_2SO_4, 18% MgO ton.15.05 - —
Potassium-sodium tartrate, NF, gran., powd., dms., c.l. lb. .32½- —
5,000-lb. lots lb. .33 - —
smaller lots lb. .33½- .38½
Potassium-titanium fluoride, fib. dms., works lb. .39 - .40
Potassium-zirconium fluoride, fib. dms., c.l., works lb. .50 —
t.c.l., works lb. .52½- .55
Pregnenolone, bots gram. .60 - —
Acetate, bots gram. .55 - —
Progesterone, USP, bots., 100 gram lots gram. .65 - —
Aceetate, bots gram. .70 - —
Procaine hydrochloride, USP, 1,000-lb. lots, dms., frt. alld. lb. 2.90 - —
100-lb lots lb. 3.60 - —
Propane, indust., tanks, group 3. gal. .03½- —
N. Y. Harbor gal. .08 - —
n-Propyl acetate, dms., c.l., dlvd. lb. .12¾- —
t.c.l., dlvd lb. .13¾- —
tanks, dlvd lb. .1075- —
Gallate, dms., 100 to 2,000-lb. lots works lb 3.90 4.40
p-Hydroxybenzoate, USP, dms. lb. 2.30 -2.40
Thiouracil, bots., 50-kilo lots or more kilo.55.00 - —
smaller lots kilo.55.10 -55.30
Propylene dichloride, dms., c.l., dlvd. E lb. .0645- —
t.c.l., same basis lb. .095 - —
tanks, same basis lb. .07 - —
Prices in West 1c. higher, on same basis.
Glycol, industrial, dms., c.l., dlvd. E lb. .14¾- —
t.c.l., same basis lb. .15¾- —
tanks, same basis lb. .13 - —
USP, dms., c.l., dlvd. E lb. .16¾- —
t.c.l., same basis lb. .17¾- —
tanks, same basis lb. .15 - —
Methyl ether, dms., c.l., dlvd. E lb. .20 - —
t.c.l., same basis lb. .21 - —
tanks, same basis lb. .18½- —
Oxide, dms., c.l., dlvd. E lb. .17 - —
E lb. .17 - —
t.c.l., dlvd. E lb. .18 - —
tanks, dlvd. E lb. .15 - —





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Psyllium seed, black, bgs	lb.	.80	—
blonde, bgs.	lb.	.18 -	.20
husks, bgs.	lb.	.45 -	.50
Pumice, dom., grd., coarse to fine, 0, ½, 1, 1½, 2, 3, bgs., ton lots	lb.	.03½-	.04¼
smaller lots	lb.	.03½-	.04½
imp., Italian, silk-screen, coarse, bgs., ton lots	lb.	.06½-	—
fine, bgs. ton lots	lb.	.04 -	—
sun dried coarse, bgs ton lots	lb.	02½	.04
fine, bgs., ton lots	lb.	02½	.04
Pumice in bbls is ½c per lb higher.			
Pumpkin seed, bgs	lb.	.25 -	.26
Pyrethrin, syn., (see Allethrin).			
Pyrethrum flowers, fine grd. 0.9% pyrethrins bbls works.	lb.	.50 -	—
powd., 1.3% pyrethrins, bbls., works	lb.	.71½-	—
liquid (20 to 1) basis 2 grams pyrethrins per 100cc. odorless base, 50 dms., works.	gal.	8.35 -	—
1-4 dms., works	gal.	8.55 -	—
oleoresin, dewaxed, 20%, dms., works	lb.	9.80	-10.15
purified, 20% dms., works	lb.	10.00	-10.10
Pyridine, denaturing, dms., c.l., works and frt. equald	gal.	2.77 -	—
l.c.l., same basis	gal.	2.80 -	—
refd., 2°, non-ret. dms., l.c.l., same basis	lb.	.95 -	—
Pyridoxine hydrochloride, bots., 100-gram lots	gram.	.55 -	—
Pyrites, Canadian, works long-ton.		3.00 -	5.00
Pyrocatechol (see Catechol).			
Pyrogallol, NF	lb.	3.25	3.43
Pyroxylin, scrap, ungrd., amber, dms., works	lb.	.20 -	—
black, dms., works	lb.	.12 -	—
mixed, mottled, dms., works.	lb.	.13 -	—
shavings, amber, cs., works	lb.	No stocks.	
mixed colors, dms., works	lb.	.11 -	—
white, china, ivory, dms., works	lb.	.16 -	—
dense, opaque, dms., works.	lb.	.12 -	.15
translucent pastels, cs., works	lb.	.14 -	—
transparent colorless, dms., works	lb.	.23 -	—
colors, dms., works	lb.	.15 -	—
USP, bots	lb.	9.50 -	—

Q

Quassia chips	lb.	17 -	—
Quebracho extract, clarif., grd., 70% tannin, bgs., c.l.,	lb.	.16½-	.16¾
liq., 35% tannin, bbls., works.	lb.	.08¼-	—
solid., clarif., 64% tannin, bgs., c.l., exdock, duty extra.	lb.	.12 3/16 -	.12 23/64
ord., 63% tannin, bgs., c.l., same basis	lb.	.11 31/64 -	.11 21/32
Quercitron extract, cryst., No. 1, bbls., l.c.l.	lb.	.40 -	—
liq., No. 1, bbls., l.c.l.	lb.	.19 -	—
Quicksilver (see Mercury metal).			
Quince seed, bgs	lb.	2.00	Nom.
Quinidine, NF, V cryst., cns., 100-oz. lots	oz.	1.15 -	—
powd., precip., cns., 100-oz. lots.	oz.	1.17 -	—
Sulfate, USP, cns., 100-oz. lots.	oz.	.87 -	—
Quinine, NF, cns., 100-oz. lots	oz.	.54 -	—
Bisulfate, USP, cns., 100-oz. lots	oz.	.37½-	—
Dihydrochloride, USP, cns	oz.	.54 -	—
Ethylcarbonate, NF, cns., 100-oz. lots	oz.	.63½-	—
Hydrobromide, NF, cns., 50-oz. cns.	oz.	.47½-	—
Hydrochloride, USP, cns., 100-oz. lots	oz.	.47½-	—
Phosphate, NF, cns., 100-oz. lots.	oz.	.51 -	—
Salicylate, NF, cns., 100-oz. lots.	oz.	.55 -	—
Sulfate, USP, cns., 100-oz. lots.	oz.	.42 -	—
Quinine and Urea hydrochloride, NF, cns.	oz.	.56 -	—
Quinoline, dms., c.l., frt. equald	lb.	.50¾-	—
l.c.l., same basis	lb.	.51¼-	—
tanks, same basis	lb.	.50 -	—

R

R salt, paste, dms., frt. alld., 100% basis	lb.	.83 -	—
powd., frt. alld, 100% basis	lb.	.88 -	.93
Rauwolfia serpentina root, powd., bbls., dms.	lb.	2.50	Nom.
Red, BON acid maroons, pure, bbls.	lb.	1.75 -	—
resinated, bbls	lb.	1.50 -	—
arylid, deep shades, bbls	lb.	3.60 -	—
light shades, bbls	lb.	2.75 -	—
maroon, bbls	lb.	3.60 -	5.90
Cadmium, CP, dark shade, bbls., frt. alld. E. of Rockies	lb.	4.30 -	—
light shade, same basis	lb.	4.00 -	—
medium shade, bbls., same basis	lb.	4.25 -	—
medium-light shade, bbls., same basis	lb.	4.05 -	—
orange shade, bbls., same basis	lb.	3.95 -	—
Lithopone, deep shade, bbls., same basis	lb.	1.93 -	—
light shade, bbls., same basis,	lb.	1.70 -	—
maroon shade, bbls., same basis	lb.	2.05 -	—
medium shade, bbls., same basis	lb.	1.85 -	—
medium-light shade, bbls., same basis	lb.	1.77 -	—
orange-red shade, bbls. same basis	lb.	1.64 -	—
Red cadmium lithopone all shades, in smaller pkgs., 5c. per lb. higher; all prices are 1c. per lb. higher ex whse. Los Angeles and San Francisco.			
Carmine No. 40 (see Carmine).			
Dyes (see Dyes, coaltar).			
Eosin toner, bbls., works	lb.	1.60 -	—
Indian, dom., pure, bgs., Bethlehem, Easton, E. St. Louis, N. Y.	lb.	.12¾-	—
Iron oxide, nat., 75%-85% ferric oxide, bgs., l.c.l., Bethlehem, Pa., Copley, O., Easton, Pa., East St. Louis	lb.	.06 -	—
syn. 98% ferric oxide, bgs., c.l., works	lb.	.12¾-	—
l.c.l., works	lb.	.13 -	—
Lake C toner, alizarin, bbls., works	lb.	1.10 -	1.20
Lithol toner, bbls., works	lb.	.79 -	—
rubine toner, pure, bbls., works.	lb.	1.50 -	—
resinated, bbls., works	lb.	1.40 -	—
Virginia type, bbls., works	lb.	1.40 -	—
Rhatany root, bgs	lb.	.15 -	.16
Rhodinol, 5-lb. cans	lb.	25.50	-34.00
Rhubarb root, China, whole, cs	lb.	.75 -	.85
powd., bbls.	lb.	.90 -	.95
India, whole, bgs	lb.	.35 -	.40
powdered, bbls.	lb.	.43 -	.45
Riboflavin USP bots., dlvd	kilo	100.00	—
readily soluble, bots., dlvd	kilo.	130.00 -	—
5'-phosphate-sodium, 100-gram lots or more	kilo.	140.00 -	—
Rochelle salt (see Potassium-sodium tartrate).			
Rosin, gum and wood (see Naval Stores, Protective Coatings market)			
Rotenone, CP, bbls., works	lb.	20.00 -	—
tech., bbls., works	lb.	16.50 -	—
Rottenstone, bgs., 5-ton lots, ex-whse	lb.	.03 -	—
ton lots, same basis	lb.	.04 -	—
Rutin, NF, fib. dms. 25-kilo lots,	kilo.	17.50	-18.50
10 to 25-kilo lots	kilo.	17.50	-20.00
1 to 10-kilo lots	kilo.	18.90	-20.00
Ryania, 100%, powd., bgs., c.l., works.	lb.	.22 -	—
l.c.l., same basis	lb.	.24 -	—

S

Sabadilla seed, powd., bbls	lb.	.49	49½
activated, ground with lime, bbls	lb.	.30 -	.32
Saccharin, USP, gran., soluble, dms., 1000-lb lots	lb.	1.60 -	—
smaller lots	lb.	1.70	1.80
powd., soluble, insoluble, dms., 1000-lb. lots	lb.	1.65 -	—
smaller lots	lb.	1.75	1.95
Saffron Spanish, USP, tins	lb.	28.00	-30.00
Safrol, dms	lb.	1.25 -	1.50
Sage, Cretan, bgs	lb.	.11 -	—
Dalmatian, bgs.	lb.	.42 -	.43
Italian, bgs.	lb.	.13 -	.14
Sago flour, raw, bgs	lb.	.06¾-	.07
refined, bgs	lb.	.08½-	.09
Sal soda (see Soda sal)			
Salol, NF, gran., bbls., kgs	lb.	1.10 -	—
Powdered salol, 25c. higher			
Salt, rock, paper bgs., c.l. 100 lbs.		.98 -	—
fable, vacuum, common, fine, paper bgs., c.l 100 lbs		1.12 -	—
Saltcake, dom., bulk, works, 100% Na_2SO_4 basis	ton.	24.00	-26.00
Saltpeter (see Potassium nitrate.			
Sandalwood, East Indies, chips bgs.		.65 -	.66
powd., fib. dms	lb.	.75 -	.76
Sanguinarine nitrate, bots	oz.	4.75	5.50
Santonin, NF, dom. cryst., powd., cns., dms	lb.	76.50	-80.00
imported, cryst., powd. cns	lb.	76.50	-80.00
Sarsaparilla root, dom bls	lb.	45	50
imp., Honduras, bls	lb.	.45	Nom.
Mexican, bls	lb.	.35	Nom.
Sassafras root bark, ord., bls	lb.	.45 -	—
select, bls	lb.	.65 -	—
Schaeffer's salt, paste, dms., frt. alld., 100% basis	lb.	.95 -	—
powder, bgs., frt. alld	lb.	.95 -	—
Scopolamine hydrobromide, USP, bots	oz.	12.25	-12.50
Seidlitz mixture, bbls., 5,000-lb. lots	lb.	.30½-	—
smaller lots	lb.	31	.33
Selenium, powd., dms., dlvd	lb.	5.00	6.00
Senega root, bls	lb.	3.00 -	—

Outstanding Quality, Service and Supply

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CSC Riboflavin U.S.P. is a product of exceptionally high purity. It has found wide acceptance over a number of years for elixirs, injectable solutions, powdered supplements, multi-vitamin drops, capsules and dry preparations. It is non-hygroscopic and exhibits unusual uniformity of crystals. Uniformity of color and complete freedom from odor have always been outstanding characteristics of riboflavin produced by CSC's unique, quality-controlled process.

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COMMERCIAL SOLVENTS CORPORATION

Senna Leaves—Sodium Pentachlorophenate

Senna leaves, Alex., whole and half, bls lb. .19 - —
siftings lb. .17 - —
Tinnevelly, No. 1, bls lb. .16 - .18
No. 2, bls. lb. .13 - .15
No. 3, bls. lb. .11 - .13
powdered, bbls., bxs lb. .18 - —
pods, bls. lb. .14 - —
Serpentaria root, bls lb 4.85 5.00
Sesame seed, Nicaragua hulled, ship't, bgs lb. .25 - .26
nat., bgs. lb. .17½- —
Salvadorian, natural lb. Nominal
Shellac, bleached, bonedry, bgs., 1,500-lb. lots lb. .56 - —
bbls., 1,500-lb. lots lb. .57 - —
kgs., 1,500-lb. lots lb. .59 - —
refd., bgs., 1,500-lb. lots lb. .66 - —
bbls., 1,500-lb. lots lb. .67 - —
kgs., 1,500-lb. lots lb. .69 - —

Bonedry shellac prices for less than 1,500 lb lots, 1c per lb higher for all packages

Lemon, No. 1, bgs., 10-bg. lots lb. .52 Nom.
No. 2 bgs., 10-bag lots lb. .50 Nom.
Superfine, bgs., 10-bag lots lb. .48 Nom.
TN, bgs, 10-bg. lots lb. .47 Nom.
Shellac in 1 to 9 bg. lots, 1c more

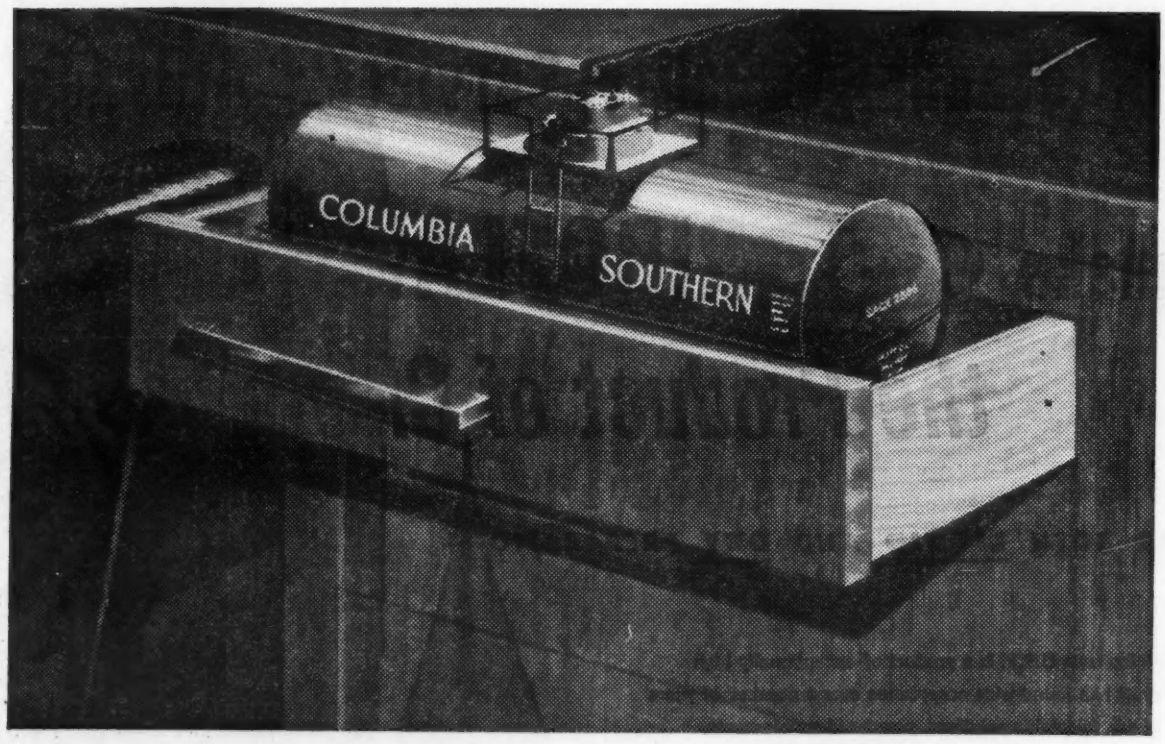
Shingle stain oil (see Oil, shingle stain).

Silica, amorph, dry grd, 325 mesh bgs., c.l., works ton 25.00 - —
t.c.l., works ton 30.00 - 40.00
hard-quartz, 99½, 325 mesh, bgs., c.l., works ton 20.00 - —
t.c.l., works ton 25.00 - 30.00
140 mesh bgs., c.l., works ton 15.00 - —
t.c.l., works ton 20.00 - —

Silicon tetrachloride, tech., dms., c.l., works lb. .16 - —
t.c.l., works lb. .20 - .28½
Silver bullion, ingots, cs lb. .25¼- —
Cyanide 6b dms., 2,500-oz. lots oz. 77⅜- —
1,000-oz. lots oz. 77⅜- —
500-oz. lots oz. 77⅜- —
100-oz. lots oz. 78⅛- —
Nitrate, CP, crystals, bots, 2,500-oz. lots oz. .54¾- —
1,000-oz lots oz. .56 - —
500-oz. lots oz. .56½- —
250-oz. lots oz. .57 - —
USP granular silver nitrate 4c per oz higher
Proteinate, mild, USP, bots., dms., 1,000-oz. lots oz. 1.05 - —
strong, NF, bots., dms., 1,000-oz. lots oz. 1.00 - —
Soapbark, whole, bls lb. .40 - —
crushed, bls., bbls lb. .50 - —
powd., bbls lb. .52 - —
Soda ash, dense, 58% paper bgs., c.l., works 100 lbs. 1.70 - —
t.c.l., stock points 100 lbs. 2.80 - 4.57
bbls c.l., works 100 lbs 2.30 - —
t.c.l., stock points 100 lbs. 3.35 - 4.12
bulk, c.l., works 100 lbs. 1.40 - —
light, 58%, paper bgs., c.l., works 100 lbs. 1.65 - —
t.c.l., stock points 100 lbs. 3.75 - 4.52
bbls., c.l., works 100 lbs. 2.20 - —
t.c.l., stock points 100 lbs. 3.25 - 5.52
bulk, c.l., works 100 lbs 1.35 - —
Soda, caustic, flake, powd., 76%, dms., c.l., works, frt. equal'd 100 lbs. 4.25 - —
t.c.l., stock points 100 lbs. 5.45 - —

Soda, caustic, liq., 50%, sellers' tanks, works, dry basis 100 lbs. 2.70 - —
rayon-type, sellers' tanks, works, dry basis 100 lbs. 2.80 - —
70%, sellers' tanks, works, dry basis 100 lbs. 2.80 - —
rayon-type, sellers' tanks, works, dry basis 100 lbs. 2.90 - —
solid, 76%, dms., c.l., works, 100 lbs. 3.85 - —
t.c.l., stock points 100 lbs. 5.05 - —
Sal., bgs., c.l., works 100 lbs. 1.40 - —
t.c.l. works 100 lbs. 1.70 - —
Sodium acetate, anhyd., bgs., c.l., works lb. .12 - —
dms., t.c.l., works lb. .12¾- —
NF, 60%, gran., dms., c.l., works lb. .11 - —
dms., t.c.l., works lb. .1250- —
Alginate, NF, white powd., dms., ton lots, works lb. .87 - 1.30
refined, bbls., works lb. .83 - —
p-Aminobenzoate, dms., 1,000 lb. lots or more lb. 2.40 - —
smaller lots lb. 2.45 - 2.50
p-Aminosalicylate, dms., 1,000-lb. lots or more, frt. adjusted lb. 3.75 - —
smaller lots, same basis lb. 3.80 - 4.25
Antimoniate, bbls., c.l., dlvd. E lb. .29 - —
t.c.l., dlvd E lb. .30½- —
Arsenate, dms., c.l., works lb. .12½- —
t.c.l. dms. works lb. .13¾- .14¼
Arsenite, dms., c.l., works lb. .13½- —
t.c.l. dms works lb. .14¼- .15¼
soln., dms., works gal. .70 - 1.10
Ascorbate, dms., 25-50 kilo lots kilo. 16.00 - —
10-kilo lots kilo. 16.35 - —
5-kilo lots kilo. 16.75 - —
1-kilo lots kilo. 17.00 - —
bots., 500-gram lots kilo. 17.50 - —

Sodium benzoate, tech., bbls., dms., 100-lb. lots or more lb. .39 - —
USP, bbls., dms. 100-lb. lots, or more lb. .46 - —
Bicarbonate, USP, gran., bgs., c.l., works 100 lbs. 2.70 - —
t.c.l., works 100 lbs. 3.70 - —
powd., bgs., c.l., works 100 lbs. 2.30 - —
t.c.l., works 100 lbs. 3.30 - —
Bichromate, bgs., c.l. works lb. .11½- —
t.c.l., works lb. .12 - .13¼
Bifluoride, bbls., c.l., works, frt. equald lb. .17½- —
t.c.l., same basis lb. .1790- —
Bisulfate, bulk, c.l., works, 100 lbs. 2.00 - —
dms., c.l., works 100 lbs. 2.65 - 3.85
t.c.l., works 100 lbs. 3.05 3.65
Bisulfite, anhyd., bgs., c.l., works, 100 lbs. 4.50 - —
t.c.l., works 100 lbs. 4.90 - —
soln., 35°, bbls., c.l., works, 100 lbs 1.40 - —
t.c.l., works 100 lbs. 1.80 - —
Borate (see Borax).
Bromide, USP, bbls., kgs., works, lb. .34 - .35
Cacodylate, NF, dms., jars lb. 6.25 - 6.50
Carbonate, anhyd. (see Soda ash), crystalline, decahydrated (see Soda sal), monohydrated bgs., c.l., works, 100 lbs. 2.90 - —
t.c.l., works 100lbs. 3.30 - —
Carboxymethyl cellulose (see CMC).
Chlorate, cryst., dms., c.l., works, lb. .08¾- —
t.c.l., works lb. .10¼- .11
Chloride, tech. (see Salt).
USP dms lb. .05 .12
Chlorite, tech., dms., c.l., works, lb. .58 - —
20-ton lots or more, works, lb. .66 - —
smaller lots, works lb. .70 - .73
Chloroacetate, tech., dms., c.l., works lb. .27 - —
t.c.l., works lb. .28 - —
Chromate, dms., c.l., works lb. .13¼- —
t.c.l., same basis lb. .13¾- .15
Citrate, anhyd., dms lb. .60 - .65
NF VIII, gran., dms lb. .26 - .30¼
USP XIV gran., dms. lb. .29¼- .34
Sodium citrate USP powd prices ½c higher.
Cyanate, dms., 1,000-lb. lots, works, lb. .85 - 1.10
smaller lots, works lb. 1.00 1.25
Cyanide flake, 96-98%, dms., c.l. or 20,000-lb. lots lb. .178 - —
over 1,000-lb lots lb. .183 - —
100-lb. to 1,000-lb. lots lb. .198 - —
Granular sodium cyanide 1c higher.
Diacetate, 33-35% acidity, 250-lb. dms., works lb. .14 - —
t.c.l., works lb. .14¾- —
anhyd., dms., c.l., works lb. .17 - —
t.c.l., works lb. .17¾- —
Dichromate (see Sodium bichromate).
Ferrocyanide, bgs., 10-ton lots lb. .13½- —
smaller lots lb. .14 - —
Fluoride, white, 97%, bbls., c.l., works lb. .1250- —
t.c.l. works lb 1290- —
Formate, bgs., c.l., dlvd. E 100 lbs. 7.60 - —
t.c.l., works 100 lbs. 8.65 - —
Genusate, 100-lb. 6b dms lb 8.50 —
Gluconate, refd., dms. lb. .80 - .83
tech., dms lb. .35 - —
Glutamate, mono-, dms., c.l. lb. 1.55 - —
Glycerophosphate, NF, cryst., bbls. lb. 2.10 - 2.25
powd., bbls lb. 2.15 - 2.30
soln., 75%, cybs lb. 1.45 - 1.60
Hydride, dms., works lb. 1.80 - 3.00
Hydrosulfide (see Sodium sulfhydrate).
Hydrosulfite, dms., c.l., frt. alld. lb. .23 - —
t.c.l., frt, alld. lb. .23½- —
Hydroxide, tech. see Soda caustic).
NF, pellets, 100-lb dms., 1 to 100-dm. lots lb. .18½- .23
Hypophosphite, NF, dms., ton-lots or less lb. .95 - .98
Hyposulfite, NF, (see Sodium thiosulfate).
pea crystals, bgs 100 lbs. 4.50 - —
gran., bgs., c.l., works 100 lbs. 4.75 - 5.00
photo grade, bgs., c.l., works, 100 lbs. 4.50 - 4.75
t.c.l., works 100 lbs. 5.00 - 5.05
technical, bgs., works 100 lbs. 4.50 - —
t.c.l., works 100 lbs. 4.90 - 6.90
Sodium hyposulfite crystals in bbls., 50c. higher.
Iodide, USP, bots., dms lb. 2.80 2.92
Lactate, edible, 50%, dms., cbys., works lb. .21½- —
60% dms. cbys., works lb. .26½- —
tech., 50%, dms., chys., works, lb. .16¼- —
Lauryl sulfate, dms., c.l., dlvd lb. .22 - —
t.c.l., dlvd. lb. .23 - —
tanks, dlvd. lb. .20 - —
Metabisulfite (see Sodium bisulfite).
Metaborate, octahydrate, gran., bgs., c.l., works ton 78.50 - —
t.c.l., ex whse ton 124.50 -129.50
Sodium metaborate, octanydrate in bbls., $24.50 per ton higher.
Tetrahydrate, c.l., bbls., works, ton 199.50 - —
Metallic, bricks, bbls., works lb. .17 - .19
tanks, works lb. .16 - —
Metanilate, bbls., frt. alld lb. .62 - —
Metasilicate, anhyd., bgs., c.l., works 100 lbs. 5.10 - —
t.c.l., works 100 lbs. 5.20 - 7.10
dms., c.l. 100 lbs. 5.25 - —
t.c.l. 100 lbs. 5.60 - 6.00
Pentahydrate, bgs., c.l., works, 100 lbs. 4.10 - —
t.c.l., works 100 lbs. 4.45 - —
dms., c.l., works 100 lbs. 4.50 - —
t.c.l., works 100 lbs. 5.10 - —
Molybdate, bbls., cbys., works lb. .75 - .85
anhyd., powd., dms., works lb. .85 - .92
Monohydrate (see Sodium carbonate, monohydrated).
Naphthionate, bbls lb. .70 - —
Nitrate, crude, dom., bgs., c.l., works ton 47.00 - —
bulk, c.l., works ton 43.50 - —
imp., 100-lb. bgs., c.l., Atl. Gulf, Pac., whse ton 53.00 - —
bulk, c.l., same basis ton 49.50 - —
Nitrite, USP, bbls., c.l., works, frt'd equald lb. .08 - —
t.c.l., same basis lb. .09½- —
Orthosilicate, conc., dms., c.l., works 100 lbs. 6.00 - —
t.c.l., works 100 lbs. 6.35 - 6.75
hydrated, flake, bbls., c.l., works 100 lbs. 5.25 - —
t.c.l., dlvd. 100 lbs. 7.00 - —
Oxalate, 88%, bgs., works 100 lbs. 10.45 - —
Para-aminobenzoate (see sodium p-Aminobenzoate).
Para-aminosalicylate (see Sodium p-Aminosalicylate).
Pentachlorophenate, briquets, bgs., c.l., works, frt. equald lb. .25½- —
t.c.l. same basis lb. 26½- .28¼
pellets, bgs., c.l., same basis lb. .25 - —
t.c.l., same basis lb. .26 - .28
powdered, bgs., c.l., same basis, lb. .24 - —
t.c.l. same basis lb. .25 - .27
Pentachlorophenate, 20,000 lbs. min. truckloads, ¼c. per lb. over carlot prices.



A top-drawer idea for Caustic Soda users!

SAVE WITH 73%

The economics of buying 73% liquid Caustic Soda can be mighty profitable *to you*, if you are still purchasing 50% concentration.

Over the past few years, many of our customers have converted to the higher strength with highly satisfactory results. Our records show that . . .

- One customer saved $131 per car
- Another saved $1,179 the first year
- Annual savings of $35,100 were reported
- An 830% return was realized during the first 10 months

These figures are typical, and we believe they prove at least one thing: It pays to investigate the savings possible through buying the 73% concentration. That applies whether it has been your practice to dilute the Caustic Soda at your site, or whether you have been adding flake caustic to bring the 50% liquid to a higher strength.

The amount of Caustic Soda you use, and the location of your plant influences how much you may save, but in either case, look into 73% right away.

If you need help in estimating your savings before you convert, just contact our Caustic Soda Department at the Pittsburgh office. Our staff will be glad to do the paper work for you. But do it today!

COLUMBIA-SOUTHERN CHEMICAL CORPORATION
SUBSIDIARY OF PITTSBURGH PLATE GLASS COMPANY
ONE GATEWAY CENTER · PITTSBURGH 22 · PENNSYLVANIA

DISTRICT OFFICES: Cincinnati
Charlotte • Chicago • Cleveland
Boston • New York • St. Louis
Minneapolis • New Orleans
Dallas • Houston • Pittsburgh
Philadelphia • San Francisco

Sodium perborate, USP, tech., bbls., c.l., works lb. .193 - —
l.c.l., works lb. .198 - —
Peroxide, dms., c.l., dlvd. E. of Miss lb. .1880- —
l.c.l., same basis lb. .1910- .2010
Phenolsulfonate, USP IX, gran., dms lb. .44 - .45
powd., dms lb. .47 - .48
Phosphate, dibasic, anhyd., bgs., c.l., frt., equald 100 lbs. 7.45 - —
l.c.l., works 100 lbs. 7.85 - —
USP, dried powd., bgs., dms., works lb. .19 - .20¼
duohydrate, bgs., c.l., frt. equald 100 lbs. 7.05 - —
l.c.l., frt. equald 100 lbs. 7.25 - —
monobasic, anhyd., bgs., c.l., frt. equald 100 lbs. 8.45 - —
l.c.l., frt. equald 100 lbs 8.90 - —
tribasic, cryst., bgs., c.l., frt. equald 100 lbs. 4.20 - —
l.c.l., frt. equald 100 lbs 4.60 - —
Sodium phosphates in dms. 60c higher than bgs.
Prussiate, yellow (see Sodium ferrocyanide).
Pyrophosphate acid, bgs., c.l., works, frt. equald 100 lbs. 10.75 - —
ferric, dms., 1,500-lb. lots, works, lb. .31 - —
smaller lots, works lb. .24 - —
tetrabasic, anhyd., bgs., c.s., works, frt. equald 100 lbs. 7.90 - —
l.c.l., frt equald 100 lbs. 8.10 - —
Salicylate, USP, dms lb. .68 - —
Sesquicarbonate, bgs., c.l., works. 100 lbs. 2.10 - —
l.c.l., dlvd., zone 1 100 lbs. 3.85 - 4.10
zone 2 100 lbs. 4.10 - 4.35
zone 3 100 lbs 4.40 - 4.65
zone 4 100 lbs 5.10 5.35
Sales zones are: (1) All States E. of Miss. R. and N. of south bound of Ky. and Va.; Ala., La., and Miss., south of 31° Tex. E. of 100°; S. of 31° Fla.; also Me., N. H., and Vt., in which there are special county zones; Davenport, Ia. and St. Louis; (2) Ark. E. of 98° Ga.; Iowa (except Davenport), Minn.; Mo. (except St. Louis), Neb., E. of 98° N. C., S. C., Tenn. and Tex. N. of 31° and E. of 100° (except Wichita Falls); also Ala., La. and Miss. No. of 31°; (3) Ark. W. of 96°; Kan., Neb. W. of 98°; N. D., Okla., S. D., Tex., W. of 100° (including Wichita Falls, excluding El Paso); (4) Ariz., Colo., Idaho, Mont., Nev., N. M., Utah, Wyo., and El Paso, Tex.
Sesquisilicate, hydrated, bgs., c.l., works 100 lbs. 4.60 - —
l.c.l., works 100 lbs. 4.95 - —
dms., c.l., works 100 lbs. 5.00 - —
l.c.l., works 100 lbs. 5.35 - —
Silicate, liq., 40° 1:2:3, turbid., dms., c.l., works 100 lbs. 1.35 - —
l.c.l., works 100 lbs. 1.70 - 2.30
tanks, works 100 lbs. 1.00 - —
47°, turbid, 1:2.9, dms., c.l., works 100 lbs. 1.95 - —
l.c.l., dms., works, 100 lbs. 2.55 - 2.80
tanks, works 100 lbs. 1.60 - —
52°, turbid, 1-2-3, dms., c.l., works 100 lbs. 2.30 - —
l.c.l., works 100 lbs. 2.65 - 3.05
tanks, works 100 lbs. 1.95 - —
solid, 1:3.2, bgs works ton 57.50 - —
Silicofluoride, bgs., c.l., works lb. .07 - —
works lb. .07 - —
works lb. .07 - —
l.c.l., works lb. .07 - .08
Sodium silicofluoride in dms., 4-10c higher
Stannate dms. works, frt alld. E lb. .548 - .602
Sulfa drugs (see Sulfa name).
Sulfanilate, bbls., works lb. .22 - —
Sulfate, NF, VII, dried, powd., dms lb. .22½- —
tech., anhyd., bgs., c.l., dlvd., E 100 lbs. 2.50 - —
rayon grade, bgs., c.l., works. ton 29.00 - —
l.c.l., works ton 35.00 - —
USP, cryst, fib dms lb. .17½ .18
gran. fib. dms lb. .17½- .18
Sulfide, flake, dms., c.l., works, E., frt. equald lb. .05¼- —
l.c.l., same basis lb. .05¾- —
fused, bbls., c.l., works, E., frt. equald lb. .04¾- —
l.c.l., same basis lb. .05¼- —
Sulfite, anhyd., bgs., c.l., works. 100 lbs. 3.00 - —
l.c.l. same basis 100 lbs 3.50 - —
powd., bbls., c.l., works 100 lbs. 7.25 - —
l.c.l. works 100 lbs 7.50
Sulfocyanide, CP, (see Sodium thiocyanate).
Sulfhydrate, flake, 70-72%, dms., c.l., works lb. .06½- —
l.c.l., works lb. .07 - —
liquid, 40-44%, tanks, works, 100% basis ton. 110.00 - —
Tetrasulfide, liq., 40%, dms., c.l., works lb. .03½- —
l.c.l., works lb. .04 - —
Tetraborate (see Borax).
lb. .44 - —
Thiocyanate, CP, dms lb. .55 - .65
tech. dms. works lb. .377 —
Thiosulfate, NF, cryst., bbls lb. .12½- —
tech. (see Sodium hyposulphite).
Titanate, ctns., c.l., works lb. .10½- —
5-ton lots, works lb. .10¾- —
1 ton or less, works lb. .11 - —
Trichloroacetate, 90% 100-lb. dms., c.l., frt. alld., E lb. .37½- —
l.c.l., frt. adjusted, E lb. .39½- —
50-lb dms., c.l., frt. alld. E. lb. .38 - —
l.c.l., frt. adjusted, E lb. .40 - —
10-lb cns., c.l., frt. alld. E. lb. .46 - —
l.c.l., frt. adjusted, E lb. .46 - —
Prices on Sodium trichloroacetate W. of the Rockies are 1¾c. per pound higher.
Tripolyphosphate, bgs., c.l., works, frt. equald 100 lbs. 8.05 - 8.25
l.c.l., same basis 100 lbs. 8.30 - 8.45
Trisilicate, powd., 1:32.2, bgs., c.l., works 100 lbs. 8.65 - —
l.c.l., works 100 lbs. 9.40 -12.80
dms., c.l., works 100 lbs. 9.05 - —
l.c.l., works 100 lbs. 9.80 -1025
Tungstate, tech., kgs., dlvd. E lb. 1.80 - —
Sodium-ammonium phosphate, bbls., works, frt. equald lb. .23 - —
Sodium-carboxymethyl cellulose (see CMC).
Sodium-cinchophen (see Cinchophen-sodium).
Sodium-formaldehyde sulfoxylate, dms., c.l., dlvd lb. .21 - —
l.c.l., same basis lb. .21½- —
Sodium-zirconyl sulfate, fiber dms., 1,000-lb lots or more works lb. .28 - —
smaller lots, same basis lb. .30 - —
Solvent, naphtha, coaltar, high flash, tanks, works gal. .31 - .35
petroleum (see Petroleum solvent, partial aromatic).
Sorbitan monostearate, fib. dms., 20,000-lb. lots, works lb. .32 - —
10,000 to 20,000-lb. lots, works, lb. .34 - —
smaller lots, works lb. .37 .39
Tristearate, fib. dms., 20,000-lb. lots, works lb. .33 - —
10,000 to 20,000-lb. lots, works, lb. .35 - —
smaller lots, works lb. .38 - .40

Sorbitol, cryst., pellets, dms., c.l., works lb. .30 - —
1 to 5-ton lots, works lb. .32 .33
powd., dms., 1 to 5-ton lots, works, lb. .38 - .39
soln., coml., aqueous, dms., c.l., works lb. .24½- —
ton lots, works lb. .25 —
smaller lots, works lb. .25¼- —
tanks, works lb .23¼- —
reg., 70%, aqueous, dms., c.l., works lb. .16 - —
ton lots works lb .16¾- —
smaller lots, works lb. .17 - —
tanks, works lb. .13 —
Soybean meal, 44% bulk, Decatur ton. 62.00 - —
protein, chemically isolated, 40,000 to 60,000-lb. lots, dlvd, lb. .23 - —
20,000 to 40,000-lb. lots, same basis lb. .25¼- —
100 to 20,000-lb. lots, same basis lb. .25½- —
mechanically refd., bgs., 40,000-lb. lots, same basis lb. .0605- —
20,000-lb. lots, same basis lb. .0620- —
smaller lots, same basis, lb. .0635- —
Sparteine sulfate, cns oz. .85 .95
Spearmint leaves, dom., bls lb. .75 - —
imported, bls lb. 1.25 - —
Spruce extract liq. reg., tanks, works lb. .01¾- —
powd., super, bgs., c.l., works. lb. .05¼- —
l.c.l. works lb. .05½- —
Squill, white, bls lb. .17 - .19
powd., fibls., bxs lb. .18 .21
St John's bread, edible, bls lb. .13 - .15
Stannic chloride, anhyd., dms., works lb. .762 - .772
Oxide, dms., dlvd. E lb. .93½- .94½
Stannous chloride, anhyd., dms., works lb. .817 - 1.036
Hydrous (crystals), dms., works. lb. .85 - .89
Sulfate, dms., works lb. .935 - .955
Starch, corn, pearl, paper bgs., c.l., 100 lbs. 7.14 - —
l.c.l. 100 lbs. 7.29 - —
powd., paper bgs., c.l 100 lbs 7.26 - —
l.c.l. 100 lbs. 7.41 - —
Prices for corn starch in cotton bags 25c per 100 lbs higher.
Potato, dom., Idaho, bgs., c.l., works lb. .06¾- —
Maine, bgs., c.l., works lb. .07¼ Nom.
l.c.l., spot lb. .08¾- .09¼
Rice, bgs., l.c.l. lb. .15½- .16
Wheat, bgs. lb. .0755- .0780
Star root (see Helonias root).
Stargrass Root (see Aletris root).
Stavesacre seed, bgs. lb. .60 - .61
Stearine oleo (see Oleostearine.)
Stomach substance, not USP, 100-lb. fib. dms lb. 2.90 - —
Stramonium leaves, bgs lb. .18 - .20
Streptomycin hydrochloride, bulk, gram. .15 - —
Sulfate, bulk gram. .15 - —
Strontium bromide, NF, cns., dms. lb. .77 .78
Carbonate, pure, dms., 5-ton lots or more, works lb. .35 - —
1-ton lots, works lb. .37 - —
tech., dms., works lb. .19 - —

Chromate, bbls., works lb. .46 - —
Iodide, jars, 25-lb. lots lb 3.42 - —
Nitrate, bbls, cs., works lb .11 - .12
Salicylate NF dms lb 1.65 - —
Sulfate, air floated, 90% 325 mesh bgs., works ton 56.70 -60.15
Strophanthin, K, bots oz. 25.00 -25.50
G, (see Ouabaine, USP).
Strophanthus seed, Kombi, biologically tested, bgs lb. 3.50 3.75
Styrax, USP, cs lb. .78 - .80
Strychnine, NF, powd., cns., 100-oz. lots oz. 1.10 - —
Phosphate, NF, cns., 100-oz. lots oz. 1.14 - —
Sulfate, USP, powd., cns., 100-oz. lots oz. .85 - —
crystals, 25-oz. lots oz. .96 - —
Styrene monomer, dms., c.l., works. lb. .22¼- —
l.c.l., works lb. .23¼- —
tanks, works lb .21 —
Styrolyl acetate, bots lb. 1.45 - 1.70
Sucrose, refd., white, bgs., refy., E. 100-lbs. 8.65 - —
Octa-acetate, denaturing grade, 100-200-lb. bgs., l.c.l., works. lb. .76 - —
Sulfabenzamide, dms lb. 4.00 - 4.50
Sodium dms lb 4.10 4.60
Sulfacetamide, fib. dms lb. 4.00 - 4.20
Sodium fib dms lb 5.00 5.50
Sulfadiazine, USP, microcrystals, dms lb. 10.60 -11.10
powder, dms lb. 10.25 10.75
Sulfadiazine-sodium, USP, dms lb. 11.25 -11.75
micro crystals dms lb. 10.60 11.10
Sulfaguanidine, USP, dms lb. 2.50 —
Sulfamerazine, USP, micro crystals. lb. 10.65 -11.15
Sulfamerazine-sodium, USP, dms., lb. 11.25 -11.75

NH_4Cl

These properties of

SOLVAY AMMONIUM CHLORIDE

may be useful in Your operations

Some Typical USES and MARKETS for SOLVAY Ammonium Chloride

- **Dry Cell Batteries**
- **Textiles** dyeing operations
- **Flux** used in galvanizing and soldering
- **Leather** compounding of "Tanners bate"
- **Yeast Food**
- **Urea-Formaldehyde**
- **Resins and Adhesives** provides acid salt to accelerate polymerization.
- **Alkaline Cleansers** source of dry Ammonia
- **Bricks** offsets effects of pyrites in clay
- **Ice Manufacturing** produces clear, non-brittle ice
- **Snow Treatment** slows melting on ski slopes
- **Fireproofing Agent** for temporary treatment of paper and textiles
- **Blasting Powder**
- **Water Purification**
- **Foundries** casting sealer
- **Soot Remover**
- **Veterinarian Medicines**

CHECK THESE PHYSICAL and CHEMICAL PROPERTIES of SOLVAY AMMONIUM CHLORIDE

Molecular Weight: 53.50

Solubility in water: 20% at −13° C, 25% at 10°C, 30% at 33°C, 40% at 83°C. Strongly endothermic (lowers solution temperature upon dissolving). Aqueous solubility suppressed by sodium chloride. Slightly soluble in methyl and ethyl alcohol and acetone. Fair solubility in glycerine.

Melting Point: Sublimes.

pH of Solutions: 25°C: 1% 5.5, 3% 5.1, 10% 5.0 (technical grade).

Appearance: White crystals, practically 100% will pass through a No. 20 screen. Tends to cake upon storage.

Reactions: Decomposed in solution by strong alkalies to liberate ammonia. Reacts with nitrites to form nitrogen. Reported to reduce oxides of cobalt and nickel at high temperatures. Hydroxides of nickel, zinc, cadmium and manganese reported to be more soluble in water in presence of ammonium chloride. Acid characteristics cause acceleration of set of urea-formaldehyde resins.

Quality: Principal impurity is sodium chloride. Very low in metallic impurities. Technical grade better than 99% NH_4Cl.

This stable, low-cost, high purity salt has such a wide variety of properties that its uses range from the manufacture of dry cell batteries . . . to its use as a flux in galvanizing and soldering . . . to the application of its endothermic action in retarding the melting of snow.

SOLVAY Ammonium Chloride is *highly soluble* at even relatively *low temperatures.* It is an active electrolyte in water—it has an acid reaction—it has an extremely low metallic content—and it also appears to have the ability to act as a catalyst in certain organic reactions.

TEST SAMPLES and further details are available at no cost or obligation. Write us giving information on your operation so that we can best evaluate how SOLVAY Ammonium Chloride can fit into your particular situation. All information will be kept in strictest confidence.

SOLVAY AMMONIUM CHLORIDE

Get the facts—send for samples Mail Coupon Now!

Allied Chemical

Soda Ash • Snowflake® Crystals • Potassium Carbonate • Calcium Chloride
Sodium Bicarbonate • Ammonium Bicarbonate • Cleaning Compounds • Chlorine
Caustic Potash • Ammonium Chloride • Sodium Nitrite • Caustic Soda
Monochlorobenzene • Para-dichlorobenzene • Ortho-dichlorobenzene

SOLVAY PROCESS DIVISION
Allied Chemical & Dye Corporation
61 Broadway, New York 6, N. Y.

Gentlemen: I am interested in the possible use of SOLVAY Ammonium Chloride in my operations. Please send me, without cost or obligation, samples and further information.

Name_____

Company_____

Position_____

Address_____

City_____ Zone____ State_____ DU-10

Sulfamethazine—Toxaphene

Sulfamethazine, micro crystals, dms. lb. 8.90 - 9.40
powder, dms lb 8.50 9.00
Sulfanilamide, USP, 30-80 mesh., dms lb. 1.40 - 1.60
microcrystals, dms lb. 1.70 - 1.90
powder dms lb 1.50 1.50
Quinoxaline, veterinary, dms. lb. 6.50 - 6.75
Sulfapyridine, NF, powd., bots., tins. lb. 7.00 - 7.50
Sulfapyridine-sodium, monohydrate, dms lb. 7.50 - 8.00
Sulfathiazole, USP, micro crystals, dms lb. 3.15 - 3.30
powder dms lb 2.80 2.95
Sulfathiazole-sodium, USP, dms lb. 3.05 - 3.20
Sulfur, coml., flour, bgs., mines. 100 lbs. 2.30 - —
bbls., mines 100 lbs 3.05 - —
lump, bgs., mines 100 lbs 2.20 - —
bbls. mines 100 lbs 2.65 - —
Crude, bulk, c.l., mines, contract, long-ton 26.50 - —
export, f.o.b. vessels, Gulf ports long-ton 31.00 -33.00
domestic and Canada, f.o.b vessel Gulf port long-ton 28.00 -29.50
refd., flowers, USP, bgs., mines. 100 lbs. 4.00 - —
bbls. 100 lbs. 5.25 - —
flour, light, bgs., mines 100 lbs. 3.60 - —
bbls., mines 100 lbs. 4.50 - —
lump, bgs., mines 100 los. 3.30 - —
rolls, bgs., mines 100 lbs. 3.85 - —
bbls., mines 100 lbs. 4.40 - —
salt block, bgs., mines 100 lbs. 3.50 - —
virgin block, bbls., mines 100 lbs. 3.45 - —
Sulfur, refd., rubbermakers, coml., regular, bgs., mines 100 lbs. 2.40 - —
bbls., mines 100 lbs. 3.55 - —
98-100% passing through 325 mesh, bgs., mines 100 lbs. 2.50 - —
bbls., mines 100 lbs. 3.65 - —
refined, bgs., mines 100 lbs. 3.25 - —
bbls., mines 100 lbs. 4.30 - —
treated, 2.5% mineral oil, bgs., mines 100 lbs. 2.70 - —
bbls., mines 100 lbs. 3.85 - —
10% pine tar, bgs., mines. 100 lbs. 3.90 - —
Dichloride, dms., c.l., works, frt. equald lb. .03¾- —
l.c.l., same basis lb. .04½- —
tanks, same basis lb. .03½- —
Dioxide, liq., coml., cyls., works lb. .09 - —
multi unit cars, works lb. .0535- —
tanks, works lb. .045 - —
refrigeration, cyls., c.l., dlvd lb. .24 - —
Monochloride, 55-gal., dms., c.l., frt. equald lb. .03¾- —
l.c.l., same basis lb. .04½- —
tank, same basis lb. .03½- —
Sumac leaves, 28%, bgs., ex-dock, ton. 125.00 - —
ground, bgs., ex-dock ton. 120.00 - —
Superphosphate, run-of-pile, under 22% a.p.a. pulv., bulk, c.l., Balto., unit-ton. .88 - .91
Carteret, N. J. unit-ton. .88 - .91
triple, 46% or more, a.p.a., pulv., bulk, c.l., East Tampa, Fla. unit-ton. .98 - —

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2,4,5-T, dms., c.l., works, frt. equald. lb. 1.25 - —
l.c.l., same basis lb. 1.30 - 2.30
Isopropyl, ester, dms., c.l., works, frt. equald lb. 1.30 - —
l.c.l., works lb. 1.35 - —
Talc, dom., ord., Calif., grad., bgs., c.l., works ton. 32.00 -36.50
Vermont off color, grd., bgs., c.l., works ton. 14.00 - —
l.c.l., works ton. 17.50 - —
fibrous, New York, grd., bgs., c.l., works ton. 25.00 -30.00
l.c.l, works ton. 28.00 -30.00
99.5%, 325 mesh, bgs., c.l., works ton. 27.00 - —
l.c.l., works ton. 30.00 -32.00
99.95% micronized, bgs., works ton. 36.00 - —
imp., Canadian grd., bgs., c.l., mines ton. 15.25 -35.00
Tallow, edible, tanks, dlvd lb. .12 - —
inedible, extra, tanks, dlvd lb. .06⅜- —
fancy, bleachable, tanks, dlvd. lb. .07⅛- —
No. 1, tanks, dlvd lb. .06 - —
special tanks, dlvd lb. .06⅝- —
sulfonated, 25%, bbls., l.c.l. lb. .07⅛- .07¾
50%, bbls., l.c.l. lb. .09¼- .09¾
Tankage, animal, feeding, 8-11% ammonia, bulk unit-ton. 7.25 - —
Chicago unit-ton. 8.00 - —
Tapioca flour, brazilian, ex whse, bgs lb. .09 - .09½
Java, AAA, bgs., ex whse., bgs. lb. .06¾ Nom.
AA, bgs., ex-whse lb. .06½ Nom.
Siamese lb. .07 - .07½
Tar acid oil, 15-18%, dms., c.l., frt. equald gal. .47 - .49
l.c.l., same basis gal. .50 - .51
tanks, same basis gal. .39 - —
25-26%, dms., c.l., same basis. gal. .54 - .56
l.c.l., same basis gal. .57 - .58
tanks, same basis gal. .46 - —
50-53%, dms., c.l., same basis. gal. .70 - .72½
l.c.l., same basis gal. .73½- .74½
tanks, same basis gal. .62½- —
Coal (see Coaltar).
Tartar emetic (see Antimony-potassium tartrate).
Terpine glycol ether, dms., c.l., works lb. .23½- —
l.c.l., works lb. .25½- —
tanks, works lb. .22 - —
Hydrate, coml., bbls., c.l. lb. .24½- —
l.c.l. lb. .25 .25½
Terpine hydrate, NF, cryst., fib. dms. lb. .57½- .62
powd., fib., dms lb. .65 .69
a-Terpineol, dms., l.c.l., dlvd. E lb. .19 - —
Terpineol, com'l, dms., c.l., South. lb. .13½- —
l.c.l. South lb .14 - —
extra, dms lb. .41 .60
prime, dms lb. .30 .45
Terpinyl acetate, extra, cns., dms. lb. .60 - .75
prime, dms lb. .55 - .70
Propionate, dms lb 1.75 2.00
Terra alba, (see Gypsum).
Testosterone, USP, 100-gm. lots, bots gram. .79 - —
Propionate, USP, 100-gm. lots, bots gram. .75 - —
Tetrachloroethane, dms., works lb. .14½- —
Tetrachloroethylene, tech. (see Perchloroethylene).
USP, 55-gal. drms., works lb .20½ .21¼
smaller, dms, works lb. .23½ .25
Tetraethyl orthosilicate, dms., c.l., dlvd E lb. .64 - —
l.c.l., dlvd, E lb. .65 - —
Pyrophosphate 40%, cns., dms., frt. equald lb. .69 —
Tetraethylenepentamine, dms., c.l., dlvd., E lb. .57½- —
l.c.l., dlvd E lb. .58½- —
tanks dlvd E lb. .56 - —
Tetrapotassium phosphate, (see Potassium phosphate).
Tetrasodium pyrophosphate (see Sodium pyrophosphate).
Thallium metal, dlvd lb. 12.50 -15.00
Sulfate, 99%, bots., dlvd lb. 8.00 -13.00
Theobromine, NF, fib. dms lb. 3.60 - —
And sodium acetate, USP, fib dms lb. 3.90 - 3.95
Sodio-Salicylate, NF, fib. dms lb. 3.20 - 3.25
Theophylline, anyhd. or USP, 100-lb. dms lb. 3.65 - —
Thiamine hydrochloride, USP, regular or ampul-type, fib. dms. kilo. 100.00 - —
Mononitrate, USP, fib. dms kilo. 100.00 - —
Thiocarbanilide, dmc lb .50 .52
Thiodiphenylamine (see Phenothiazine).
Thiophene, dms., c.l., works lb. No stocks
Thiourea, tech., dms., c.l., works lb. .40 - —
l.c.l., works lb. .42 - —
Thorium nitrate, purif., fib. dms., 100-lb lots or more, works lb 3.80
dl-Threonine, bots., 1-kilo lots kilo. 450.00 -500.00
Thyme leaves, French, bgs. lb. .19 - .20
Spanish, bgs. lb. .10 - —
Thymol, fib. dms lb. 2.75 - 3.00
Iodine, NF, dms lb. 7.30 - —
Timbo root (see Cube root).
Tin chloride (see Stannous chloride, anhydrous).
crystals (see Stannous chloride, hydrous).
Metal (Straits) lb. .94 - —
Oxide (see Stannic oxide)
Sulfate (see Stannous sulfate).
Tetrachloride anhyd. (see Stannic chloride, anhydrous)
Titanium dioxide anatase, chalk resistant, ogs, c.l., dlvd lb. .22½- —
l.c.l., dlvd. lb. .23½- —
ceramic, bgs., c.l., dlvd lb. .22½- —
l.c.l., dlvd lb. .23½- —
reg., bgs., c.l., dlvd lb. .22½- —
l.c.l. dlvd. lb. .23½- —
metallurgical nat., gran., bgs., c.l., f.o.b. Jacksonville, Fla ton. 120.00 - —
Niagara Falls, N. Y. ton. 137.50 - —
5-ton lots, same basis. ton. 142.50 - —
ton lots, same basis. ton. 147.50 - —
Milled titanium dioxide $7.50 per ton higher.
rutile, non-chalking, bgs., c.l., dlvd. E lb. .24½- —
l.c.l., dlvd. E lb. .25½ —
Hydride, cns., works lb. 7.95 9.00
Pigment, calcium-rutile base, bgs., c.l., dlvd lb. .08⅜- —
l.c.l., dlvd lb. .08⅞- —
Tetrachloride, tech., dms., c.l., works lb. .40¾- —
l.c.l., works lb. .43¾- —
tankcars, works lb. .39¾- —
dl-a-Tocopherol, bots kilo. 182.00 - —
Acetate, bots kilo. 165.00 - —
o-Tolidine base, distilled, bgs lb. 1.30 - —
Tolu balsam, cns lb. 4.00 - —
Toluene (see Toluol).
p-Toluenesulfonamide, flake, dms., frt. alld lb. .64 - .66
powder, works lb. .70 - —
solid, frt. alld lb. .61 - —
m-Toluidine, dms., c.l., works, frt. alld lb. .79 - —
l.c.l., same basis lb. .80 - —
tanks, same basis lb. .78 - —
o-Toluidine, dms., c.l., works, frt. alld lb. .23 - —
l.c.l., same basis lb. .24 - —
tanks, same basis lb. .22 - —
p-Toluidine, flake, dms., frt. alld lb. .64 - —
solid, dms., frt. alld lb. .60 - .61
Toluol, coaltar, indust. or nitration, tanks, works:—
Bethlehem, Pa. gal. .34 - —
Birmingham dist. gal. .32 - —
Chicago dist gal. .35 - —
Cleveland, dist. gal. .34½- .35
Geneva, Utah gal .26 - —
Johnstown, Pa. gal. .32 - —
Lackawanna, N. Y. gal. .35 - —
Lone Star, Tex. gal. .33 - —
Lorain, Ohio gal. .33 - —
Minnequa, Colo gal. .32 - —
Philadelphia district gal. .34 - —
Pittsburgh dist gal. .32 - —
Sparrow's Point, Md gal. .34 - —
Terre Haute, Ind gal. .35 - —
Youngstown, Ohio gal. .32½- .33
petroleum, indust., 2° tanks, works:—
Albany, N. Y. gal. .30 - —
Bayonne, N. J. gal. .34 - —
Baytown, Tex. gal. .33 - —
Chicago, Ill. gal. .38 - —
Detroit, Mich gal. .35 - —
Houston, Tex. gal. .30 - —
Philadelphia, Pa. gal. .34 - —
Providence, R. I. gal. .35 - —
Wood River, Ill. gal. .35 - —
2,4-Tolylenediamine, cryst., fib., dms., frt. alld lb. .94 - —
powd., same basis lb. 1.00 - —
Tonka beans, Angostura, cks lb. 1.65 - 1.80
Brazilian, Surinam, cs lb. 1.00 - 1.25
Totaquine, 100-oz. lots, cns oz. .42 - —
Toxaphene, dms., c.l., works lb. .17 - —
truckloads, works lb. .17 - —
ton to truckloads, works lb. .20 - —
smaller lots, works lb. .23 - —

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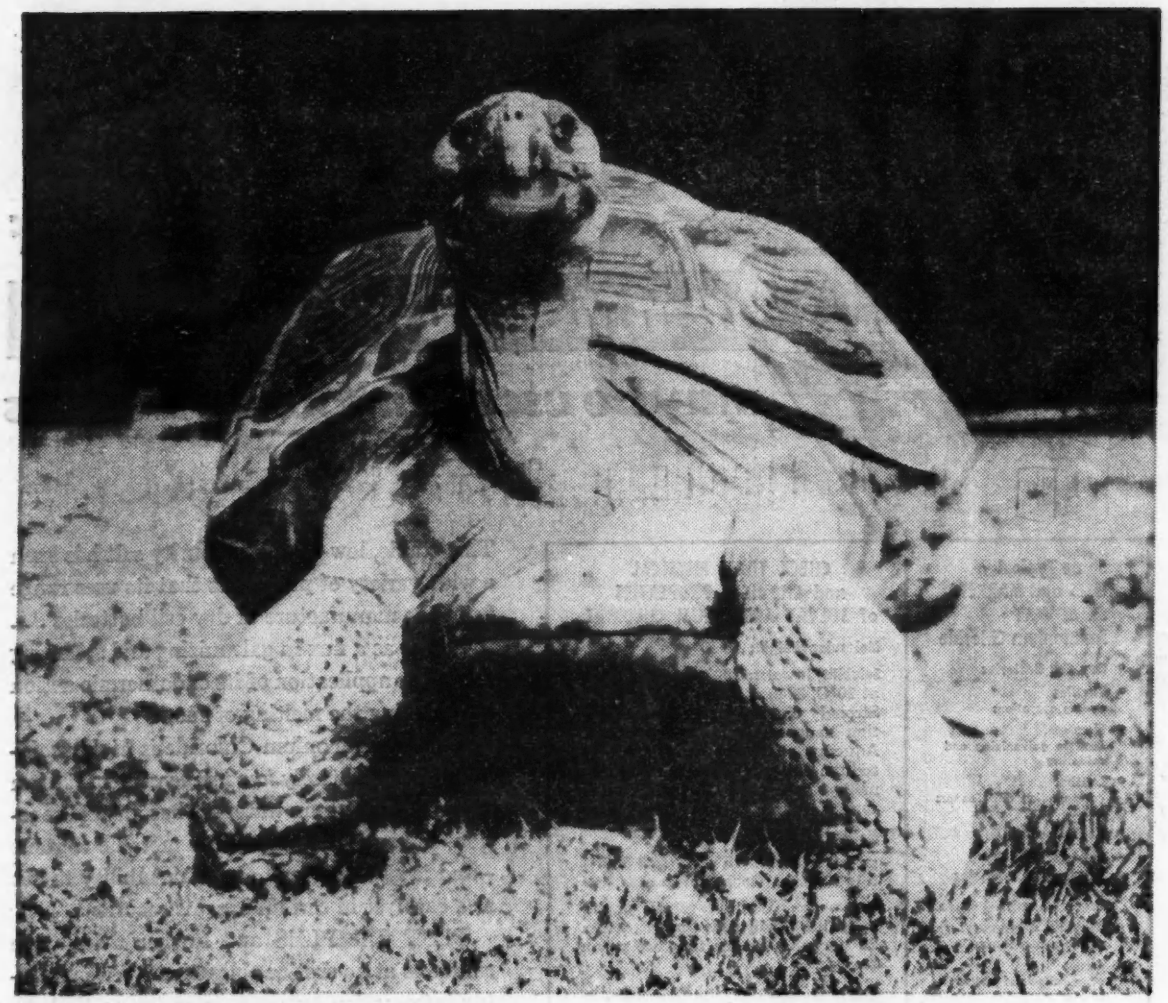

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Triacetin, dms., c.l., dlvd. E. of Rockies lb. .39 - —
l.c.l., same basis lb. .40 - —
tanks, same basis lb. .37 - —
Tributyl citrate, tech., dms., c.l., works lb. .40½- —
l.c.l., works lb. .41½- —
tanks, works lb. .39 - —
Phosphate, dms., c.l., works lb. .52 - —
l.c.l., same basis lb. .53 - —
tanks, same basis lb. .50 - —
Tributylamine, dms., c.l., works. lb. .74 - —
l.c.l., same basis lb. .75 - —
tanks, same basis lb. .72 - —
Trichlorobenzene, dms., c.l., works, frt. alld. E lb. .14½- —
l.c.l., frt. alld E lb. .15½- —
tanks, frt. alld. E lb. .13 - —
Prices in the West 1¼c. higher.
Trichloroethylene, dms., c.l., or truckloads, works, frt. equald. lb. .11¼- —
dlvd. E lb. .12¼- —
l.c.l., dlvd. E lb. .13½- —
tanks, works, frt. equald lb. .10¼- —
dlvd. E lb. .11 - —
Trichloroethane, dms., c.l., works. lb. .15 - —
l.c.l., works lb. .15½- —
tanks, works lb. .11½- —
Tricholine citrate, 65% soln., ret. cbys., works, frt. adjusted lb. 1.40 - 1.45
Tricresyl phosphate, coaltar, dms., c.l., dlvd lb. .35 - —
l.c.l. dlvd. lb. .36 - —
tanks, dlvd. lb. .33 - —
petroleum, dms., c.l., dlvd lb. .35 - —
l.c.l., dlvd. lb. .36 - —
tanks, dlvd. lb. .33 - —
Triethanolamine, dms., c.l., dlvd. E lb. .21¾- .23¼
l.c.l., same basis lb. .22¾- .24¼
tanks, same basis lb. .20 - .21½
Triethylamine, dms., c.l., works, dlvd. E lb. .47 - —
l.c.l., same basis lb. .48 - —
tanks, same basis lb. .45 - —
Triethyl citrate, tech., refd., dms., c.l., works lb. .48 - —
l.c.l., works lb. .53 - —
tanks, works lb. .45¾- —
Phosphate, dms., c.l., works lb. .39 - —
l.c.l., same basis lb. .39 - —
tanks, same basis lb. .37 - —
Triethylene glycol, dms., c.l., dlvd. E. lb. .18¼- .19¾
l.c.l., same basis lb. .19¼- .20¾
tanks, same basis lb. .16½- .18
Triethylenetetramine, dms. c.l., dlvd. E lb. .48½- —
l.c.l., dlvd. E lb. .49½- —
tanks, dlvd. E lb. .47 - —
Trimethylamine, 25-30% soln., dms., c.l., works, frt. equald., 100% basis lb. .42 - —
l.c.l., works, frt. equald, 100% basis lb. .42½- —
tanks, works, frt. equald, 100% basis lb. .33 - —
Tripentaerythritol, bgs., l.c.l., works. lb. .35 - —
Triphenyl phosphate, bbls., c.l., frt. equald lb. .39 - —
l.c.l., frt. equald lb. .40 - —
Triphenylguanidine, bbls., works lb. .90 - —
Tripropylene glycol, dms., c.l., frt. alld. E. lb. .19¾- —
l.c.l., frt. alld. E. lb. .20¼- —
Prices 1c. per lb. higher in west.
Trisodium fluoroacetate (see Sodium fluoroacetate, tribasic)
Phosphate (see Sodium phosphate tribasic).
Trypsin, pharmaceutical, 1:75 dms., works lb. 3.95 - —
dl-Tryptophane, fib. ctns., works. kilo. 165.00 - —
Tuba root (see Cube root)
Tungsten metal, powd., 98.8%, dms., dlvd lb. 4.95 - —
Turpentine, gum (see Protective Coatings market, Naval Stores).
Tyrothricin, USP, bots. gram. .75 - .85

U

Urethane, USP, dms lb 1.50 - —
Unicorn root, false (see Helonias root).
True (see Aletris root).
Urea, dom., 46% N, bgs., c.l., works. lb. .06 - —
l.c.l., works lb. .06½- —
45% N, bgs., c.l., 30 tons, frt. alld. Kan., Neb., N. Dak., Okla., S. Dak., Tex., and E. ton. 154.00 - —
l.c.l., dlvd. ton. 162.00 - —
Urea-ammonia liquor, A and B grades N basis, tankcars. Belle, W. Va. ton. 128.00 - —
C grade, tankcars, same basis. ton. 126.50 - —
37 grade, tankcars, same basis. ton. 155.50 - —
Uva ursi leaves, bls. lb. .12 - .14

V

Valerian root, Belgian, bgs. lb. .38 - .40
dl-Valine, dms., works lb. 21.00 - 27.50
Valonia beards, 40-42% tannin, bgs., ex-dock ton. 64.50 Nom.
Valonia cups, 28-30% tannin, bgs., exdock ton. 48.00 - —
extract, powd., 62% tannin, bgs., ex-dock, duty extra lb. .08½- —
Vanadium pentoxide, tech., dms., works lb. 1.28 - 1.33
Vanilla beans, Bourbon, tins lb. 10.50 - 11.00
Mexican, cuts, tins lb. 10.25 Nom.
whole, tins lb. 10.50 - 11.00
Tahiti, cs. lb. 10.25 Nom.
Vanillin, ex eugenol, tins, 25-lb. lots. lb. 6.50 - 6.75
smaller lots lb. 6.80 - 7.25
ex guaiacol, tins, 25-lb. lots lb. 3.00 - —
smaller lots lb. 3.05 - 3.15
ex lignin, tins, 25-lb. lots lb. 3.00 - —
smaller lots, cins lb. 3.05 - 3.15
Vinyl acetate monomer, 55-gal. dms., c.l., dlvd. E lb. .18½- —
l.c.l., dlvd. E lb. .19½- —
tankcars, dlvd. E lb. .16½- —
tanktrucks, dlvd. E lb. .17½- —
n-Butyl ether, tech., dms., c.l., works lb. .28 - —
l.c.l., works lb. .30 - —
tanks, works lb. .27 - —
Chloride monomer, cyls., frt. equald lb. .26 - —
tanks, same basis lb. .13¼ —
Ether, USP, anesthesia, bots., 50 c.c., hospitals, bot. 1.12 - —
75 c.c. bot. 1.56 - —
Ethyl ether, tech., dms., c.l., works lb. .26 - —
l.c.l., works lb. .23 - —
tanks, works lb. .25 - —
Isobutyl ether, tech., dms., c.l., works lb. .28 - —
l.c.l., works lb. .30 - —
tanks, works lb. .27 - —
Methyl ether, cyls., works lb. .23 - —
tanks, works lb. .20 - —
Cylinders are sold outright, or if shipped against deposit, a free period of 60 days is allowed; and if empties are returned prepaid and in good condition within that period, full refund is made.
Trichloride (see Trichloroethane).

2-Vinylpyridine, dms., works lb. 1.40 - 1.50
Vinyltoluene, dms., c.l., works lb. .20¼- —
l.c.l., works lb. .21¼- —
tanks, works lb. .19 - —
Viosterol, in alcohol, 1,000,000 D units per gram, bots., lots of 10 billion USP units, 1,000,000 units. .028 - —
lots of 1 billion USP units, 1,000,000 units. .03 - —
lots of less than 1 billion USP units 1,000,000 units. .035 - —
in nat., veg. oil, 400,000 to 1,000,000 D units per gram, bots., lots of 10 billion USP units, 1,000,000 units. .02 - .04¾
lots of 1 billion USP units, 1,000,000 units. .025 - .05¼
lots of less than billion USP units, 1,000,000 units. .03 - .05¾
Vitamin A, synthetic, acetate crystalline beads, 500,000 A units per gram gram. .07¼- —
liquid, in oil 1,000,000 A units per gram. 1,000,000 units. .13 - —
Palmitate, liq., 1,000,000-1,800,000 A units per gram 1,000,000 units. .12 - —
in oil, 1,000,000 A units per gram 1,000,000 units. .12 - —
B (see Thiamine hydrochloride).
B_2 (see Riboflavin).
B complex, natural (see Rice bran concentrate and Yeast).
B_6 (see Pyridoxine hydrochloride).
B_{12} crystalline, 1-gram or 5-gram vials gram. 245.00 - —
oral grade solids, in containers of 1 and 5 grams of B_{12} activity gram. 185.00 - —
C (see Acid, ascorbic)
D (see Oils, codliver and fishliver, Calciferol, and Viosterol).
Vitamin D_2 (see Calciferol).
E (see a-Tocopherol and Oil, wheat germ).
G (see Riboflavin).
H (see Biotin).
K, Active (see Menadione).
K_{10} 25 gram bots. gram. 4.50 - —
Violet methyl toner (see Blue methylviolet toner
V.M.&P. naphtha (see Petroleum naphtha).

W

Wahoo root, bark, bls. lb. 2.50 Nom.
Warfarin, 0.5%, dms., 50 lb lots, dlvd lb. 1.95 - —
25-49 lb. lots, f.o.b., N.Y., or Chi lb. 2.05 - —
5-24 lb. lots, cns. f.o.b., N. Y., or Chi lb. 2.15 - —
Wattle bark, fair average, African, bgs., ex dock ton. 96.00 - —
merchantable, bgs., ex dock. ton. 94.00 - —
extract, liquid 35% tannin bbls., lb. .09¾ .10
solid, E. Africa, 60% tannin, bgs., ex dock, duty extra lb. .10 - —
S. Africa, 60% tannin, bgs., ex-dock, duty extra lb. .10 - —
Wax amorphous (see Wax microcrystalline)
Bayberry, bgs., spot lb. .42 - .45
Bees, crude, African, bgs lb. .54 - .56
Brazilian bgs lb. No stocks.
Central American, bgs lb. .57 - .57½
Chilean, bgs lb. .57 - .57½
refd., bleached, white, bricks. lb. .73 - .75
slabs lb. .72 - .74
yellow, bricks lb. .60 - .61
slabs lb. .59 - .60

Triacetin—Wax, Microcrystalline

Wax, candelilla, crude, bgs. lb. .64 - .66
refd., bgs lb. .67 - .69
Powdered candelilla, 20 mesh, 7c. per lb. higher, 80 mesh, 7c.; 100-200 mesh, 8c.
Carnauba, chalky, bgs., ton lots, lb. .70 Nom.
North Country, No. 2, bgs., ton lots lb. .83 Nom.
No. 3, Ceara, crude, bgs., ton lots lb. .71 - .73
refined, tech., bgs., ton lots lb. .74 - .77
pure, bgs., ton lots lb. .83 - .85
Parnahyba, crude, bgs., ton lots lb. .73 - .74
yellow, No. 1 Ceara, bgs., ton lots lb. 1.02 - 1.04
No. 2, bgs., ton lots lb. 1.00 - 1.02
No. 1, Parnahyba, bgs., ton lots lb. 1.07 - 1.09
Powdered carnauba wax price differentials same as powdered candelilla.
Japan, bgs lb. .45 - .46
Microcrystalline, 170°-175° F., m.p., ASTM, penetration 15-20, amber, ctns., 20,000 lbs., group 3, works lb. .13 - .14
smaller lots, same basis. lb. .14 - .15
black, ctns., 20,000 lbs., same basis lb. .11½- .12¼
smaller lots, same basis. lb. .12½ - 13⅛
white, ctns., 20,000 lbs., same basis lb. .24 - .25
smaller lots, same basis. lb. .25 - .26

—Continued on page 40

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CARDIS* ONE	195-200	1-2	4-5	12-16	55-65	EMULSIFIABLE PETROLEUM WAX
CARDIS* 314	184-189	4-6	4-5	13-16	45-55	EMULSIFIABLE PETROLEUM WAX
CARDIS* 319	180-185	5-7	4-6	18-20	65-70	EMULSIFIABLE PETROLEUM WAX
CARDIS* 320	180-185	5-7	4-5	28-30	75-80	EMULSIFIABLE PETROLEUM WAX
CARDIS* 262	195-200	3-5	BROWN	14-17	40-45	SPECIALLY PROCESSED PETROLEUM WAX
FORTEX	190-200	3-5	2½-3½	0.0	0.0	MICRO-CRYSTALLINE HARD AND PLASTIC
MEKON* B-20 A-20 Y-20	190-195 190-195 190-195	3-5 3-5 3-5	BROWN-BLACK AMBER-6 MAX. YELLOW-3-3½	0.0	0.0	MICRO-CRYSTALLINE HARD AND BRITTLE
POLYMEKON*	200-MIN.	0-3	YELLOW	0.0	0.0	SPECIALLY PROCESSED PETROLEUM WAX
WARCO WAX 180	180-185 180-185	4-7 4-7	WHITE BROWN	0.0	0.0	MICRO-CRYSTALLINE HARD AND BRITTLE
WARCO WAX 150-A	145-155 145-155	15-20 15-20	YELLOW 1-2 BROWN	0.0	0.0	MICRO-CRYSTALLINE PLASTIC
WARCOSINE	150-155	15-20	WHITE	0.0	0.0	MICRO-CRYSTALLINE PLASTIC
PARAFFIN	136-138 ASTM	FULLY REFINED				CRYSTALLINE
SUGAR CANE WAX 700	169-174	1.0-1.5	BROWN	25-30	70-90	VEGETABLE WAX
SUGAR CANE WAX TECHNICANE 500	171-176	3 MAX.	LIGHT BROWN	25-35	55-70	VEGETABLE WAX
SUGAR CANE WAX DUPLICANE 517	165-170	1 MAX.	BROWN	20-30	65-75	VEGETABLE WAX

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Volume 166 **October 4, 1954** **Number 14**

Land of Opportunity

It is quite easy to see fully what was behind the recently reported investigation of the practicability of establishing an ammonium nitrate plant in Alaska (see OPD, August 30, page 7). Mr. Concannon, on leave from the Department of Commerce, applied his long-service acquaintance with the economics of the chemical industry to the problem of providing Alaskan agriculture with nitrogen plant food at a cost which could be met. His task, of course, included, in addition to a determination of resources, an examination and promotion of the general idea of industrialization in the territory. How far he got in the latter pursuit cannot yet be measured.

As a general picture, that is what was behind the development conference reported several weeks ago. There is before the relatively short step taken up to there very, very much more than is apparent at first glance or discernible at even more than a casual examination. Alaska is a big opportunity for industrial development. It follows, of course, that, because of the prominent role of applied chemistry in all areas of industrialization or industrial progress today, that Alaska should have a thorough chemical analysis—economically. It has enormous resources in many minerals even in the tailings of once busy gold regions. It has coal. It has natural gas. It is believed to have much promise as a producer of petroleum. It has great possibilities in water power. It has extensive forest resources.

It needs development: there hasn't been a new venture in mineral areas in twenty years. The development should be by private enterprise: there is no reason why the territory's industrialization should be in any way government-kept—the freer it proceeds the better.

One of the first things to be ascertained in any program for the development of Alaska's wealth of resources is what is there; where is it; how much. The next step would be to make use of what that survey discovered. The coal is mostly at a distance from locations suitable for industrialization. But, a combination of production of coal chemicals and the providing of fuel for the generation of electric power can be worked out at some of the coal fields. The natural gas can be piped to suitable locations; but with it also the big problem of transportation could well be met by applying the gas at its source to the production of electric power—and chemicals. Chemical projects are being developed on a large scale in the gas fields of Alberta.

Fish are today perhaps Alaska's largest source of wealth. The Concannon survey gave much consideration to the avoidance of detrimental effects of industrialization on fishing waters. The possibilities of chemical operations in connection with fishery practice deserve study. There is now some shipping of refuse to Pacific coast states as a foodstuff in fish hatcheries. No practicable scheme for utilization of the post-spawning carcases of salmon has been found—if ever sought—distances are a handicap.

Alaska is not a region of perpetual snow and ice. Its coastal areas are rather temperate by virtue of ocean streams or currents. Its population is not a sealed-in congregation of sourdoughs. One can farm, as well as fish, over many square-miles of its vast area. There is an opportunity for industry, especially the chemical industry, to do a good job of money-making out of its great natural resourcefulness, not in anything resembling its one-time gold boom, but in a good old solid working way. A start has been made in the area of pulp production. Observations are being directed correlatedly at the territory's abundance of lime and the chemical utilization of seawater as a source of sodium and magnesium salts.

Plans are being urged for the calling by the Governor of Alaska of a conference of widely interested industrialists and financiers in the coming year. That proposal deserves the hearty vigorous support of all who are interested in the potentialities of the mineral and forest resources of the territory in the expansion of chemical producing and processing enterprises.

New Employment Relations Aim

Because of the outspoken dissatisfaction of the leaders of organized labor with the handling of labor legislation in the recent session of congress, there is a growing expectation that this country will have next year a more than usually active "labor government"—not official, of course, but quite influentially operative. Because of the spreading advocacy of merger of the two major national organizations, there are observers of political omens and trends who are beginning to believe that the coming year will see the establishment of a really national and rather populous labor political party.

Whatever may be the outcome in either of those areas, there is going to be a strong push for the enactment of "fair" (meaning favorable) federal labor legislation.

That is the political side of the imminent developments in employment (properly called "labor") relations. There is going to be something doing on another side. That will be the demanding in gradually expanded industrial areas of a guaranteed annual wage, or, at least, guaranteed annual employment. Judging from what some of the big leaders are already saying, the goal will be an annual wage. That, of course, is not good for various reasons but especially because it presents a too attractive opportunity to get paid for loafing.

Much is being said of the theoretical similarity of an annual wage to an annual salary. There is no emphasizing of the fact that the comparison is theoretical. Because in this matter the irreconcilable difference between theory and practice which is common to everything substantially involving the human factor, the proposing arguments mean practically nothing. A guaranteed annual wage is not commercially feasible. It would cost too much.

Guaranteed annual employment, or continuous employment, could be worked out—If! Some observers see something that looks like a lessening of that "if" in the trend in labor organizations to do away with segmental jurisdiction. Whether that eventually will mean, that, for example, a carpenter would be allowed to take a turn at painting nobody is yet ready to say—if anybody could say. Some such departure from specialization would be required to provide the majority of production employees with continuous employment unless some way could be found to require and insist that every employee do a specified volume of work in every specific measure of time. Otherwise it would be absolutely impossible to lay out a year's work for any employee.

Sooner or later management is going to have to face this matter of keeping employees employed. That calls for a deal of study and the collecting of cost data in the greatest possible detail. Wage plans have been developed beyond the need for collective bargaining. A new subject is necessary for several reasons.

Chemicals and Health

It is directly in keeping with the contributions of applied chemistry to the health service of the public that the Manufacturing Chemists Association is considering the establishment of an independent, collaborative research center to study the effects of chemicals on humans. The chemical industry recognizes that it is as much its responsibility to do everything it can to prevent the jeopardizing or actual damaging of human health by the action of chemicals under any circumstances as it is to strive by way of the relatively new medical methods of chemotherapy to prevent, investigate, and cure the many health ills to which humans are subject. It is in recognition of that responsibility and in keeping with its well-developed practice of meeting its responsibilities that the chemical industry, represented in its national organization, is establishing a committee to study how it can better serve in the interests of public health.

As set forth by the MCA president at the recent conference on industrial health (see OPD, September 27, page 4), the ideal research center in the field of chemical health hazards would not be one controlled by government or by an individual company, not even one controlled by a particularly involved segment of the industry. It should be financed and administered by the industry as a whole. It is logically to be expected that that concept will meet with universal approval in the industry which has earned a high reputation for its nationally organized safety program which is already being extended into widening areas of public service.

"Chemical hazard problems remain to be solved," said the MCA executive, "and new ones arise with new developments. These problems of today and opportunities of the future are not simply challenges; they are obligations of all industry and particularly of the American chemical industry and science." It was his belief that the challenges would be met. All who have an understanding acquaintance with the policies and practices of the chemical industry's representative groups will share confidently in that belief.

The chemical industry has the biggest and best opportunity to provide the public with implementing means of health service, preventive and remedial. Its utilization of that opportunity for the public good has been notably broad. Its contributions to the armamentarium of the medical profession have been in largest part the force behind the progress of the healing art, prophylactically and curatively. Its efforts to mimimize the hazards of the handling and use of chemicals also have done much to preserve human lives. It has a health-service reputation of which it can, fully justifiably, be proud. So; there is every reason to know that it will do still more by way of its latest research project to tie chemicals beneficially to health

Washington Talks It Over

By Ralph L. Cherry
Chief, OPD Washington Bureau

The drug and chemical industry is still waiting for the government's program on mercury to bring down the price of the metal, but so far the waiting has been in vain. Contrarywise, the price has continued to climb and is now some $35 to $40 per flask higher than it was when the program was set up July 6.

Nor has there been any rush of inquiries or showing of interest upon the part of the domestic mining industry to enter into contracts with General Services Administration to sell its "surplus" mercury to the government. As of last week, the number of contracts which GSA had entered into with prospective producers over the twelve weeks since the program was announced added up to exactly zero.

Nonetheless, government officials are still confident that the program will work as expected—that prices are going to start downward, and that the domestic producers will join in the program. They have heard reports that a group of western mining interests are thinking in terms of getting into mercury production and may eventually enter into a contract with GSA, but nothing has been firmed up as yet.

Probably the most encouraging "news" that can be given the consumer industries at this time is the official word from the Office of Defense Management that the government is out of the mercury market, except for the GSA program, and that no deliveries of mercury are being made to the national stockpile. On the other hand, the consuming industries should understand that the mercury now in the stockpile will remain there as there are no plans for its release at this time.

Aside from a special act of congress, President Eisenhower is the only person who can release materials from the stockpile—and then only upon the finding of an emergency. In this respect, he would, of course, rely upon ODM for guidance, and the officials of this agency do not regard the situation in mercury as an "emergency" at this time.

Materials have been released from the stockpile to meet a shortage of supplies on only two occasions in the past. This was during the Korean crisis when copper supplies became extremely tight. Two releases of limited amounts of copper were made at that time, but these are the only times that this was done.

Are Vitamins Foods?

A disagreement between the District of Columbia tax collector and the local pharmacists over the status of vitamins for tax purposes is rapidly coming to a head with prospects that the courts may be called upon to step in and decide the issue.

A new 1 percent tax on food, part of a tax increase package to finance the district's big public works program, became effective August 1, but when the assessor tried to impose the tax on vitamins on the grounds that they were food products he hadn't reckoned with the district pharmaceutical association. The association holds that vitamins are aids to health and as such are tax-free.

The upshot is that at the suggestion of the association a number of local druggists have gone on a "tax strike" and are refusing to collect the tax on vitamin sales. They are inviting the collector to take them into court, which is what is likely to happen unless the assessor decides to reverse his earlier ruling.

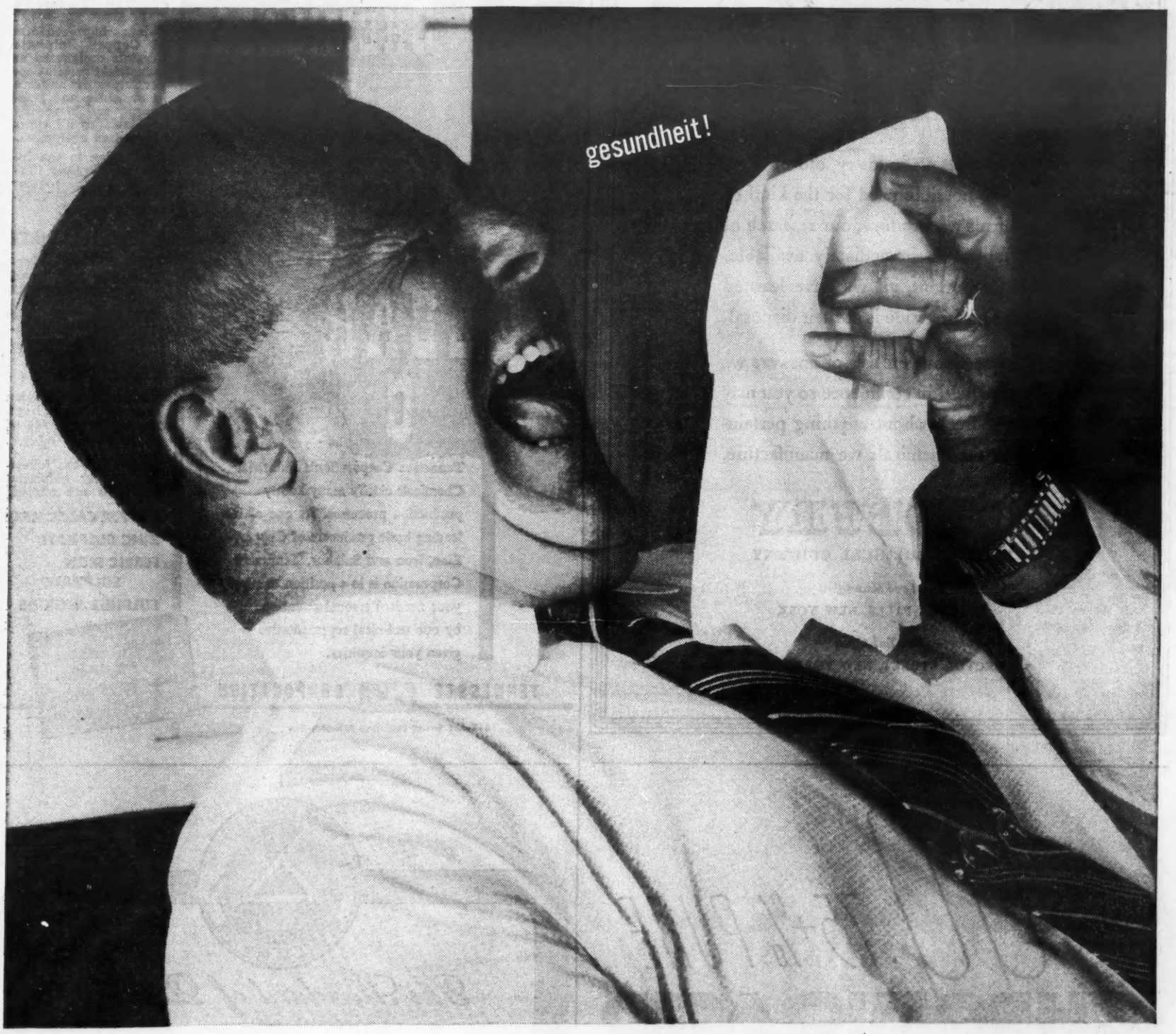
Korean Import Rules Changed

The small business office of the Foreign Operations Administration is advising American contractors doing business with Korea of two important changes that have recently been put into effect by the Korean government:—

1. The office of procurement will give consideration in the future to the bid of a supplier only when the supplier offers through one importer or directly. Bids of a supplier offered through more than one importer are subject to disqualification and rejection.

2. The right to bid will be suspended indefinitely for any supplier who offers to supply a requirement and refuses to accept an award, in partial amounts or in toto, unless the supplier qualifies the offer by indicating the terms and conditions of supply on the bid.

FOA suggests to American suppliers that they keep these changes in the rules in mind in making future offers to Korea.



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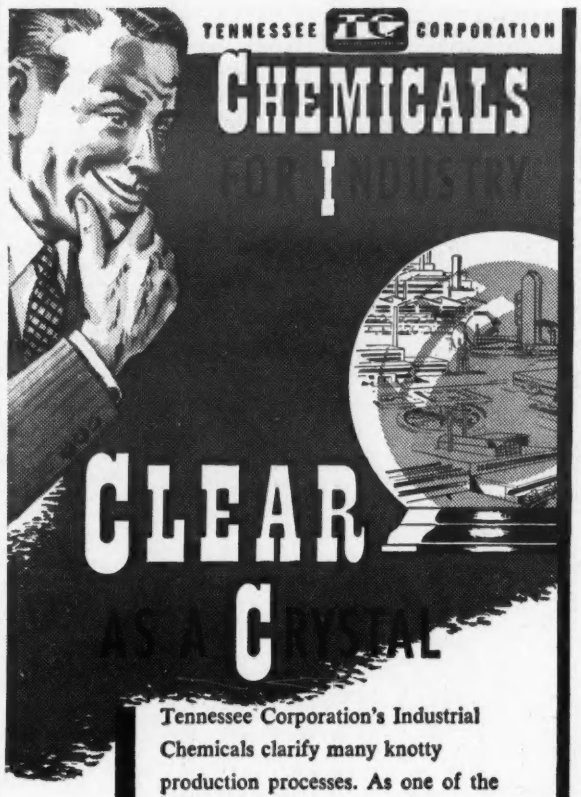

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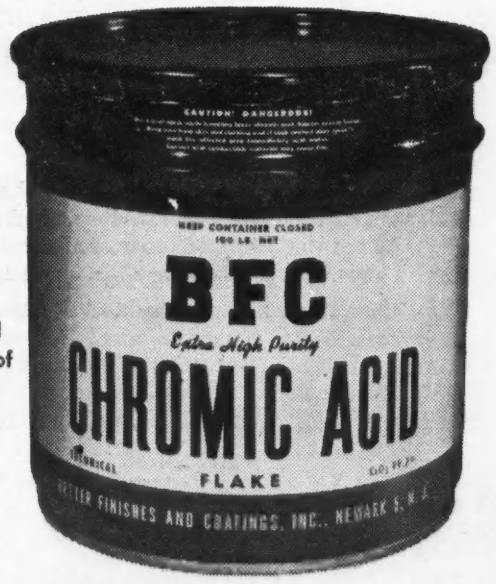

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Heavy Chemicals

Price trend swung upward last week, the index recording 98.53, compared with 98.51 in the preceding period. Higher producing costs were reflected in price advances in sodium metasilicate anhydrous and pentahydrate, sesquisilicate hydrated and sodium nitrite. Previous announcements of these advances stimulated buying interest and it was apparent that consumers were taking on stocks prior to the deadline October 1. Mercury prices entered new high territory under an improved consuming demand and an exceedingly tight spot supply. Copper remained definitely short with the tone of the market strong. Buying interest increased for several heavy chemicals during the week in the local area on fear of a teamsters' strike but the overall demand showed gradual improvement also.

Domestic production levels of industrially important inorganic chemicals generally declined in July when compared with those for June, 1954, as well as for July, 1953, according to information compiled by the Bureau of the Census. Decreases from June, 1954, were reported for 37 of the 51 chemicals included in the release while the output of 13 chemicals was higher. A comparison with July of last year shows increases in production for 15 chemicals and a decrease for 22. These figures are unadjusted for seasonal variation and number of working days.

July production of ammonium nitrate, ammonium sulfate, liquid and gas, carbon dioxide, chlorine, methanol, nitric acid, and sodium acid pyrophosphate exceeded the figures reported for June, 1954, and for the corresponding month of 1953. In comparison with June, 1954, shipments of sodium carbonate and caustic soda declined, in July, 5 percent aond 26 percent, respectively. Stocks held at producing plants for 27 chemicals of the 51 chemicals for which monthly information is reported increased, while stocks for 21 chemicals declined.

Paper production based on percentage, six days' capacity, was 96.4 percent for the week ending Sept. 25, according to the American Paper and Pulp Association. This compared with 92.1R in the preceding week and 98.2 in the correponding week of 1953.

Production figures and plant stocks appearing below, unless otherwise designated, are from the Bureau of the Census, Department of Commerce.

Acid, Chromic—Sales have not exceeded moderate dimensions of late although the market has remained in a fair state of balance. July production was down to 798 tons, compared with 1,206 in June and 1,332 in July, 1953. Stocks at producing plants on July 31 were 1,341 tons, against 1,566 on June 30.

Acid Hydrochloric—Consumer demand held about steady with stocks still slanting toward the long side. July production showed 58,210 tons including 10,515 tons made from salt and acid, 11,642 from chlorine and hydrogen and 36,053 tons as byproduct and from other sources. Output in June recorded 60,122 tons and in July last year 62,463 tons were made. Plant stocks on July 31 were 13,917 tons, against 14,442 on June 30.

Aluminum Chloride—Total sales last month were described as satisfactory by producers with the chemical industry mentioned in the buying movement. July production was placed at 2,766 tons of anhydrous, compared with 2,659 in the preceding month. Stocks at producing plants on July 31 were 1,411 tons, against 1,594 on June 30. Output of liquid and crystals in July was 746 tons, compared with 1,017 in June. Plant stocks at the close of July were 595 tons, against 572 on June 30.

Calcium Carbide—July production was down moderately. The record shows 54,351 tons of commercial in July, compared with 56,544 in June and 69,603 tons in July, 1953. Plant stocks on July 31 were 55,599 tons, against 53,993 on June 30.

Calcium Phosphate, Dibasic — Demand fair but not of sufficient dimensions to impair a favorable supply position. July production amounted to 6,760 tons, compared with 7,905 in June and 8,007 tons in July last year. Plant stocks on July 31 were 12,843 tons, against 15,320 on June 30.

Chlorine — Demand appeared to gain slightly but still below current production. July output of gas was placed at 245,109 tons, compared with a revised total of 243,729 in June and 241,110 tons in July, 1953. Plant stocks on July 31 were 150 tons, against 130 on June 30. Consumption during July was placed at 245,109 tons of gas, compared with a revised total of 243,729 in June. The supply of liquid on July 31 was 21,231 tons, against 23,071 on June 30.

Copper Sulfate — Supply conditions tightened last week with the tone of the market distinctly firm. The scarcity of copper and the strong position of the metal have been the chief factors contributing strength to the sulfate market. Industrial demand continued steady and export inquiry from South American countries remained active. It looked as though the Greecian order will go to foreign producers. There was nothing new regarding the agricultural demand. Florida is expected to come into the market shortly but has shown no unusual interest to date. Producers are not booking shipments for large crystals prior to November.

Fluorspar — Production and shipments of metallurgical-grade fluorspar totaled 7,614 and 14,192 short tons, respectively, in the second quarter of 1954 compared with output of 19,567 tons and shipments of 10,046 tons in the first quarter. Producers in Illinois and Kentucky shipped 9,824 tons, the remainder coming from Arizona, Montana, Nevada and Utah. In the second quarter of 1953, production and shipments of metallurgical grade fluorspar were 33,636 and 37,854 short tons, respectively. Two of the larger producers in Kentucky closed their operations in the second quarter and it was reported that a large producer in Illinois had allowed partial flooding of the mine. Dewatering of the mine and resumption of full-scale mining depends on future market conditions. Production and shipments of acid-grade fluorspar increased slightly in the second quarter, but output and sales of ceramic grade material declined, the Bureau of Mines states.

Potash, Caustic—Activity well sustained over the turn of the month. Market steady with supply situation comfortable. July production was off a bit. The total stood at 4,966 tons of liquid including 1,281 tons of solid, compared with 5,175 tons of liquid containing 1,072 tons of solid in June and 6,768 tons of liquid including 2,178 tons of solid in July last year. Plant stocks on July 31 were 3,639 tons of liquid and 2,350 tons of solid, against 4,120 tons of liquid and 2,442 tons of solid on June 30.

Potassium Carbonate—Glass plants continued to take on stocks for use in television tubes. Demand was stepped up during the latter part of September and has shown a tendency to increase over the turn of the month.

Potassium Chlorate—Market firm and relatively quiet, in fact the market has shown no unusual activity over the past month. Producers have inventories and can make immediate shipments.

Potassium Stannate—Sales increased last week under an improved demand from platers. The market held steady but without price change as producers were still basing quotations on 94c. tin.

Soda Ash—Tonnage shipments held at about the same level as the previous week. The demand seemed to be of fair general character. July production of finished light ash amounted to 202,971 tons, compared with 207,830 in June and 213,246 tons in July, 1953. Stocks at producing plants on July 31 were 53,155 tons, against 54,658 on June 30. Output of finished dense ash in July was 142,682 tons, compared with 133,506 in the previous month and 154,787 tons in July last year. Plant stocks on July 31 were 58,884 tons, against

For Late Market Developments, See Page 4

Price Trends

Advanced

Mercury, $10 per flask.
Sodium metasilicate anhy., 25c. per 100 lbs.
Pentahydrate, 10c. per 100 lbs.
Nitrite, ¼c. per lb.
Sesquisilicate, hydrated, 10c. per 100 lbs.

Reduced

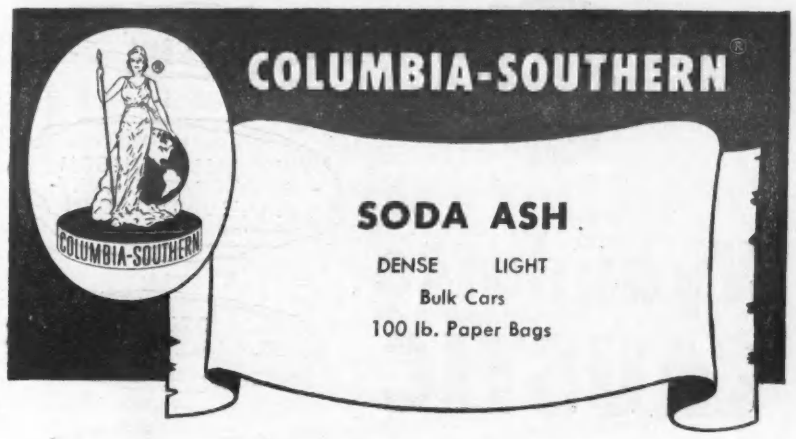
None

Comparative Price Indexes

(100—1949 average)

Last week	Prev. week	Last month	Oct. 2, 1953
98.53	98.51	98.53	98.27

(*For Current Prices see page 9*)



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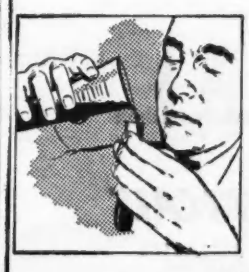

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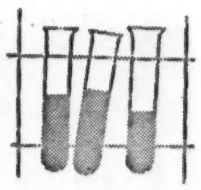

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51,810 on June 30. Production of natural soda ash showed 37,784 tons in July, compared with 39,998 in June and 33,641 tons in July ,1953. Plant stocks on July 31 were 35,887 tons against 35,470 on June 30.

Soda, Caustic—Shipments of liquid showed moderate improvement last week but no important gain could be noted in the movement of the dry forms. The market maintained a steady position with the supply comfortable. July production by the electrolytic process amounted to 243,709 tons of liquid containing 27,944 tons of dry, compared with 246,913 tons of liquid including 29,301 tons of dry in June and 237,828 tons of liquid and 24,534 tons of dry in July, 1953. Plant stocks on July 31 were 152,038 tons of liquid and 23,047 tons of dry, against 126,596 tons of liquid and 19,141 tons of dry on June 30. Production by the lime soda process showed 41,758 tons of liquid containing 16,748 tons of dry during July compared with 42,571 tons of liquid including 16,477 tons of dry in June and 44,347 tons of liquid and 11,894 tons of dry in July, 1953. Plant stocks on July 31 were 13,081 tons of liquid and 5,909 tons of dry, againts 9,507 tons of liquid and 4,022 tons of dry forms on June 30.

Sodium Chlorate—Remained quiet at the beginning of the month with sales confined to small lots representing actual needs of consumers. July production was down to 2,593 tons, compared with 3,156 in June. Plant stocks on July 31 amounted to 1,698 tons, against 1,560 on June 30.

Sodium Metalsilicate — Anhydrous is priced higher at $5.10 per 100 pounds in bags, carlots, works. Pentahydrate has been advanced to $4.10 per 100 pounds in bags, works and sesquisilicate to $4.60 per 100 pounds in bags carlots, works for hydrated. Prices are on a freight equalized basis. The advances are the result of higher producing costs all along the line.

Sodium Nitrite—Previous announcement of a price advance on October 1, brought out considerable buying interest prior to the deadline. The market for barrels is now quoted at 8c. per pound for carlots and 9½c. for small quantities f.o.b. the works. Higher producing costs were instrumental in bringing about the uplift.

Sodium Phosphates—Overall demand described as fair with supplies comfortable. July production of monobasic was placed at 595 tons, compared with 622 in June and 1,634 tons in July, 1953. Plant stocks on July 31 were 391 tons, against 472 on June 30. Dibasic output in July amounted to 2,091 tons, compared with 2,047 in June. Plant stocks on July 31 were 1,292 tons, against 1,504 on June 30. Tribasic production in July was 3,360 tons, compared with 4,253 in June and 3,720 tons in July last year. Plant stocks on July 31 were 1,754 tons, against 2,194 on June 30.

Nonferrous Metals

Copper—Market situation exceedingly firm with scarcity of available metal reaching the acute stage. The shortage of stocks has restricted activity while the London market has been steadily mounting. Consumers of the metal were denied supplies from the government stockpile. It was stated that the defense mobilizer has refused to consider the proposal to divert into industrial channels copper destined for fourth quarter delivery to the strategic board. Makers of copper products had petitioned the stockpilers to ease copper shortages stemming from strikes in the U. S. and Chile. Several companies said they may be forced to close their plants unless they get more copper right away. Electrolytic was priced at 30c. per pound delivered Valley basis.

Lead—Fair consumer buying and higher London prices have kept the market firm. At the close, the common grade was priced at 14¾c. per pound at New York and at 14.55c. St. Louis basis. It is expected the GSA will shortly enter the market for additional tonnages of lead.

Mercury—The market entered new high territory last week. Consumer demand was a bit more active and prices advanced easily under this propelling influence. The spot position continued exceedingly tight with only small lots available at $330 per flask. Some relief may come from Spain later on when shipments covering the October-November period are expected. The amount to be shipped is indefinite.

Tin—No unusual activity featured the tin market last week. Price fluctuations in Straits tin ranged from 93¼c. to 94c. per pound on spot. While London and Singapore were relatively quiet, there were intervals of moderate weakness in those markets. Futures remained a shade under spot prices.

Zinc—Buying interest was described as good with sales of high grade and prime western showing up in fair volume. The market closed steady with 11½c. per pound named for prime western East St. Louis basis.

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Monochlorobenzene

Clear, colorless. Distills within 1°C. Completely miscible with most organic solvents; immiscible with water.

In 55-gal. steel drums ..... 500 lbs. net

ortho-Dichlorobenzene, Tech.

Clear, colorless. Completely miscible with most organic solvents; immiscible with water.

In 55-gal. steel drums ..... 600 lbs. net

Trichlorobenzene, Tech.

Clear, almost colorless mixture of 1,2,4- and 1,2,3-Trichlorobenzenes, the 1,2,4- predominating. Completely miscible with most organic solvents; practically immiscible with water.

In 55-gal. steel drums ..... 650 lbs. net

HYDROGENATED SOLVENTS

Cyclohexanol

Water white. Infinitely miscible with most organic solvents; moderately miscible with water. In two grades: High Grade and Technical. Technical Grade contains 2.5% by weight of methanol to depress freezing point.

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55-gal. drums ..... 425 lbs. net

Methyl Cyclohexanol

Mixture of ortho-, meta-, and para-isomers. Infinitely miscible with alcohol and ether; very slightly miscible with water.

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5-gal. cans ..... 39 lbs. net
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- ☐ Monochlorobenzene
- ☐ ortho-Dichlorobenzene, Tech.
- ☐ Trichlorobenzene, Tech.
- ☐ Cyclohexanol
- ☐ Methyl Cyclohexanol
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Joins Oronite Chemical

Norman E. Hathaway has resigned as sales manager of the industrial chemicals department for Davison Chemical Company, Baltimore, Md., to join Oronite Chemical Company, San Francisco. In his new post Mr. Hathaway will serve under M. L. Baker, Oronite vice-president in charge of sales. Mr. Hathaway is a former director of the chemical and rubber division of the Business and Defense Services Administration.

Fairfield Chemical Division Names 3 to Sales Positions

Appointments to administrative sales posts in the headquarters office of Fairfield Chemical Division of Food Machinery & Chemical Corporation, in New York, have been announced by John A. Rodda, sales manager of the division. All of the appointments made by Mr. Rodda are personnel retained from the insecticide division of U. S. Industrial Chemicals Company, a division of National Distillers Products Corporation, which was purchased by Food Machinery and became the Fairfield Chemical Division of the latter company, effective September 1.

William S. Wallace, for many years an employee of U. S. Industrial Chemicals, has been named office assistant to Mr. Rodda in the sales department. George Kerbey, who had long experience in the farm chemicals field prior to his association with USI five years ago, becomes Mr. Rodda's assistant in field sales operations. The third appointment made by Mr. Rodda is that of John F. Odeneal, who will be in charge of sales in the New York area. This area embraces New England, as well as New York and New Jersey. Mr. Odeneal was in charge of insecticide sales of the New York area office of USI.

Vitro Rare Metals Names Swigart General Manager

Joseph J. Swigart has been named general manager of Vitro Rare Metals Company of Canonsburg, Pa., division of Vitro Corporation of America. He replaces Franklin H. Bivins who becomes assistant to the executive vice-president of the corporation. Mr. Swigart has been eighteen years with Vitro Manufacturing Company of Pittsburgh, Pa., in the ceramics color field.

Interchemical Research Lab Manager's Post to Dr. Wicks

Dr. Zeno Wicks has been appointed general manager of Interchemical Corporation's central research laboratories in New York. Dr. Wicks joined Interchemical in 1944 and has held posts at the central research laboratories and several of the divisional laboratories and production units. His most recent position was manager of the commercial research department.

Cyanamid Appoints Vriens

Dr. Gerard N. Vriens has been appointed a group leader in the intermediates and rubber chemicals development section of American Cynamid Company's Bound Brook, N. J., plant. Dr. Vriens joined Cyanamid in 1949 as a development chemist. In 1952 he was named a senior chemist, a position he held until has present appointment.

AEC Picks Venable as Consultant

The Atomic Energy Commission has retained Emerson Venable, Pittsburgh, Pa., consulting chemist, for advice and laboratory investigation of metal cleaning operations at the new atomic energy plant being built near Portsmouth, Ohio.

Hercules Export Announces 3 Divisional Appointments

The export department of Hercules Powder Company, Wilmington, Del., has named William W. Delany manager of its eastern division and has made two other appointments. Joseph M. Carbonara has been appointed western hemisphere division manager, and Curtis M. Ninsley has become supervisor of the European division.

Mr. Delaney joined Hercules in 1929 and has been with the export department since 1947. Mr. Carbonara joined Hercules in 1939 and for the past two years has been a member of the export department. Mr. Hinsley's service with Hercules dates from 1937. He has been with the export department for the past eight years.

Tide Water Launches Tanker

The Flying A Washington, a $6,000,000 tanker with a deadweight of 16,000 tons, capable of carrying 131,000 barrels of petroleum products, has been launched at Bethlehem Sparrows Point Shipyard, Baltimore, Md., for operation by Tide Water Associated Oil Company.

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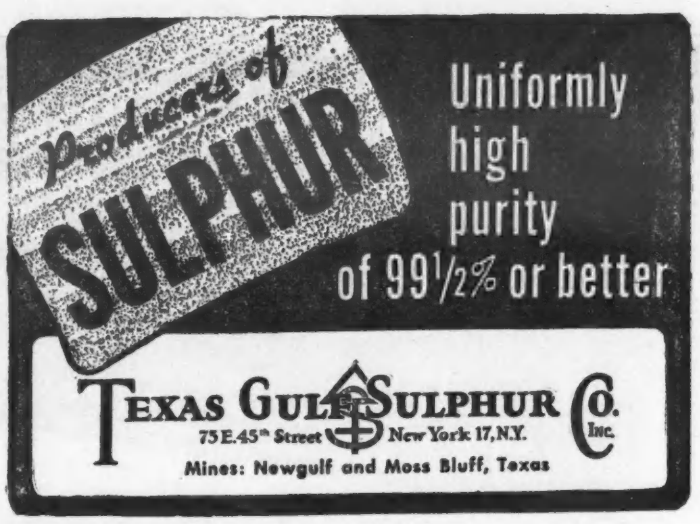
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Diamond Alkali Names Four To Posts in Silicate Division

Diamond Alkali Company, Cleveland, Ohio, has announced personnel changes in its silicate, detergent, calcium division, including the naming of W. E. Winsor administrative assistant. D. J. Rex has been appointed chemical engineer at the company's precipitated calcium plant in Painesville, Ohio. Chester D. Rudolf and Dr. William D. Jones have joined the division to engage in technical service and applied research activities in the calcium carbonates section.

Prior to his promotion, Mr. Winsor was engaged in silicate sales. He went to Diamond in 1948 from Pittsburgh Coke & Chemical Company. Mr. Rex has been with Diamond since 1947 and was a senior engineer on the Painesville work's technical staff at the time of his latest promotion. He was formerly with Hercules Powder Company.

Mr. Rudolph will serve as a group leader in applied research in calcium carbonates. He has joined Diamond after seventeen years with New Jersey Zinc Company. Dr. Jones will be occupied with technical service work on calcium carbonates as used in the plastics field. His background includes work with Rohm & Haas Company, Hercules Powder Company and Battelle Memorial Institute.

Davison Appoints Goltz To New York Position

Roy L. Goltz has been appointed New York district manager for petroleum catalysts of the Davison Chemical Company Division of W. R. Grace & Co. Mr. Goltz will make his headquarters at Davison's New York office. This is an expansion of sales activities and service to customers in the New York and Pennsylvania area. For a number of years Mr. Goltz was district manager for Ethyl Corporation in New York. Prior to that assignment, he served as field representative and sales coordinator for Ethyl.

Aluminum Drafting Standards Book Revised, Offered in Second Edition

The second edition of "Drafting Standards—Aluminum Extruded and Tubular Products" has been issued by the extruded products division of the Aluminum Association. Explanatory material and diagrams have been added in several sections, particularly those on tolerances and dimensioning. Changes in tolerances have been made in a number of cases where experience has indicated such changes to be desirable. The first part of the section on dimensioning has been rearranged and enlarged. Copies may be obtained by writing on company letterhead to the association at 420 Lexington avenue, New York 17.

Current Prices

—*Continued from page 31*

Wax, microcrystalline, 180°-185°F., ASTM, penetration, 7-11; amber, ctns., 20,000 lbs., same basis	lb.	.16	- —
smaller lots, same basis.	lb.	.17	- —
black, ctns., 20,000 lbs., same basis	lb.	.14½	- —
smaller lots, same basis.	lb.	.15½	- —
white, ctns., 20,000 lbs., same basis	lb.	.27	- —
smaller lots, same basis.	lb.	.28	- —
190°-195°F., m.p., ASTM, penetration 2-7, amber, ctns., 20,000 lbs., same basis	lb.	.20	- —
smaller lots, same basis.	lb.	.20½	- —
black, ctns., 20,000 lbs., same basis	lb.	.18	- —
smaller lots, same basis.	lb.	.18½	- —
white, ctns., 20,000 lbs., same basis	lb.	.33½	- —
smaller lots, same basis.	lb.	.34½	- —
Montan, dom., refd., bgs.	lb.	.31	- .32
imp., crude, Bohemian, bgs.	lb.	.13	- .13½
German, bgs	lb.	.14	- .14½
Ouricury, refd., bgs	lb.	.95	- .98
Paraffin (see P).			
Spermaceti, blocks, cs	lb.	.25½	.31
cakes, cs	lb.	.26½	.32
Sugar cane, dom., refd., slabs, works	lb.	.75	- .80
spot	lb.	.77¼	- 82¼
White lead (see Lead, white).			
White pine bark, rossed, bls.	lb.	.18	- .19
White precipitate, USP, powd., dms.	lb.	6.55	- —
Whiting (see Calcium carbonate).			
Wild cherry bark, thin, nat., bls.	lb.	.18	- .19
rossed, bls	lb.	.19	- .20
Ginger (see Snake root, Canada).			
Witch hazel bark, bls	lb.	.16	- .17
leaves, bls	lb.	.18	- .19
Woolfat, crude (see Degras).			
USP (see Lanolin).			
Wormseed, American, bgs	lb.	.20	- .25
Levant, bgs	lb.	4.25	- 4.50

X

Xylene (see Xylol).			
Xylenol, cryst., 58°-60°C., m.p., dms., l.c.l., works	lb.	.40	- —
56°-58°C., dms., l.c.l., works, frt. equald	lb.	.30	- —
45°-47°C., dms., c.l., same basis.	lb.	.212	- —
l.c.l., same basis	lb.	.215	- —
tanks, same basis	lb.	.199	- —
fractions, over 7°C., b.r., except meta, dms., c.l., same basis	gal.	.90	- —
l.c.l., same basis	gal.	.99	- —
tanks, same basis	gal.	.85	- —
meta fraction, over 7°C. b.r., dms., c.l., same basis	gal.	1.01	- —
l.c.l., same basis	gal.	1.04	- —
tanks, same basis	gal.	.90	- —
Xylidines, mixed, dms., c.l., truckload, works	lb.	.39	- —
l.c.l., same basis	lb.	.40	- —
tanks, same basis	lb.	.38	- —
Xylol, coaltar indust., tanks, works, Bethlehem, Pa	gal.	.34	- —
Birmingham district	gal.	.32	- —
Chicago district	gal.	.35	- —
Cleveland district	gal.	.35	- —

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Xylol, coaltar, indust., tanks, works, Geneva, Utah gal. .27 - —
Johnstown, Pa. gal. .33 - —
Lackawanna, N. Y. gal. .35 - —
Lone Star, Tex. gal. .33 - —
Lorain, Ohio gal. .33 - —
Minnequa, Colo. gal. .34 - —
Philadelphia district gal. .34 - —
Pittsburgh district gal. .32 - —
Sparrows Point, Md gal. .34 - —
Terre Haute, Ind. gal. .35 - —
Youngstown, O gal. 32½- —
petroleum, indust., tanks, works:—
Bayonne, N. J. gal. .34 - —
Baytown, Tex. gal. .33 - —
Chicago, Ill gal. .35 - —
Houston, Tex. gal. .35 - —
Philadelphia, Pa. gal. .34 - —
Providence, R. I. gal. .35 - —
Wood River, Ill. gal. .35 - —

Y

Yara yara, cns lb 2.15 - 2.65
Yeast, brewer's, dry, USP, 50 Int'l B units per gram, 100-lb. dms lb .47 - —
90 Int'l B units per gram, 100-lb dms lb .52 - —
300 Int'l B units per gram, 100-lb dms lb .56 - —
300 Int'l B units per gram, 100-lb dms lb .60 - —
Yellow, barium chromate, CP, bbls., dlvd. N. I.c.l., dlvd. N. of Tenn. and N. C., E. of Miss., including Davenport Minneapolis, Rock Island St Louis St Paul lb .35 - —
Yellow barium chromate price differentials in other States and city zones are those for chrome yellow below
Benzidine, AAA, bbls., dlvd lb. 1.91 - —
AAOT bbls lb 2.15 - —
Cadmium, CP, all shades, bbls., frt. alld. E. of Rockies lb. 2.85 - —
lithopone, all shades, bbls., frt. alld., E of Rockies lb. 1.15 - —
Cadmium yellows Los Angeles and San Francisco ex whse 1c per lb higher
Chrome, CP, bbls., dlvd. N. Tenn., and N. C., E. of Miss., including Davenport, Minneapolis, Rock Island. lb. .31 - —
Dlvd Ala. Fla. Ga., La (Shreveport, 1¼c. nigher); Miss. N C., S. C., Penna., Dallas, Tex., 1¼c higher; Ft Worth, Tex., 1½c. higher; El Paso, Tex 2c higher; Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha St. Joseph 1.6c. higher dlvd. Pac Coast; for Denver Pueblo, Salt Lake City Wichita prices are equalized with Chicago
Hansa, 10 G, bbls., same basis as yellow, chrome lb. 2.15 - —
G pigment, obls lb 1.91 - —
Iron oxide, natural, French type, bgs., c.l., works lb. .05¼- —
Peruvian type, bgs., l.c.l lb. .038 - —
pure, bgs., c.l., works lb. .10½- —
l.c.l., works lb. .10¾- —
Mercury oxide, bbls., 1,000-lb. lots. lb. 5.58 - —
smaller lots lb. 5.60 - —
Ocher (see Yellow, iron oxide, natural)
Zinc (chromate), bbls., dlvd. lb. .25 - —
basic, dlvd. lb .30 - —
Yerba santa leaves, bls lb. .40 - .42
Yohimbine hydrochloride, bots, tin. oz. 4.75 - 5.25

Z

Zein, bgs., 30,000-lb. lots, works lb. .38 - —
1,000 to 30,000-lb lots, works lb. .40 - —
smaller lots works lb .43 - —
Zinc acetate, tech., obls., dms., works lb. .27 - —
NF VIII, dms lb. .53 - —
Borate, bgs., c.l., dlvd. E. lb. .192 - —
l.c.l., dlvd E lb .202 - —
Chloride, NF, gran., dms lb. .42 - —
precipitated powd., dms lb .26 - —
solution 50% dms. c.l. works. 100 lbs. 5.50 - —
l.c.l., works 100 lbs. 6.10 - —
tanks, works 100 lbs. 4.85 - —
tech., fused, dms., c.l., works. 100 lbs. 10.10 - —
l.c.l., works, dms 100 lbs. 10.60 - —
gran., fib., dms., c.l., works 100 lbs 10.60 - —
l.c.l., works 100 lbs. 11.00 - —
Chromate (see Yellow, zinc).
Cyanide, kgs., 1,000-lb. lots or more, works lb. .523 - —
smaller lots, works lb. .543 - —
Dust, pigment, bbls., c.l., works lb. .14¾- —
l.c.l., works lb. .15¾- —
Fluoride, bbls., works lb. .49 - .50
Hydrosulfite, dms., c.l., frt. alld. lb. .21½- —
l.c.l., frt. alld lb. .22 - .37½
Metal, prime western slabs, E. St. Louis lb. .11½- —
Naphthenate, liq., 8% Zn., dms., frt. alld lb. .24½- —
10% Zn. dms., frt alld lb. .30 - —
Oxide, pigment, American process, lead-free, bgs., c.l., dlvd lb. .13½- —
l.c.l., dlvd lb. .14½- —
leaded 35%, bgs., c.l., dlvd lb. .14 - —
l.c.l., dlvd [illegible] - —
50%, bgs., c.l., dlvd lb. .14½- —
l.c.l., dlvd lb. .15½- —
French process, coml., green seal, bgs., c.l., dlvd lb. .15¼- —
l.c.l., dlvd lb .16¼- —
red seal, bgs., c.l., dlvd lb .14¾- —
l.c.l., dlvd lb. .15¾- —
white seal, bgs., c.l., dlvd. lb. .15¾- —
USP, ctns., c.l., dlvd lb. .16¾- —
l.c.l., dlvd lb. 17¾- —
Zinc oxide Pac. coast prices 1c. higher.
Phenolsulfonate, NF, gran., dms., lb. .39 - —
powd., dms lb. .42 - .49
Resinate, precip., 7.2-7.6% Zn, dms., frt. alld lb. .29 - —
Silicofluoride, bbls., works lb. .12 - .13
Stearate, tech., USP, ctns., c.l., lb. .37 - —
l.c.l., lb. .38 - .42
Sulfate cryst., 22% Zn, bgs., c.l., works, frt. alld. 100 lbs. 8.05 - —
l.c.l., same basis 100 lbs. 8.60 - —
flake, 25½% Zn., bgs., works 36% Zn., bgs., c.l., frt. alld. 100 lbs. 7.90 - 8.05
l.c.l., same basis 100 lbs. 8.65 - 8.80
powd., monohydrate, bgs., c.l., dlvd. E. 100 lbs. 7.90 - —
l.c.l., dlvd. E. 100 lbs. 8.65 - —
Zinc sulphate in bbls. 40c higher
USP, gran. dms lb. .26 - —
Sulfide, pure, bgs., c.l., dlvd lb. .2530- —
Undecylenate, dms. lb. 2.25 - 2.50
Yellow (see Yellow, zinc).

Continued on page 79

Zinc-ammonium chloride, ogs., c.l., works 100 lbs. 9.65 - —
bbls., c.l., works 100 lbs. 10.25 - —
l.c.l., bbls., works 100 lbs. 10.75 - —
Zinc-formaldehyde sulfoxylate, basic, dms., c.l. lb. .25½- —
l.c.l. lb. .26 - .41½
normal, dms., l.c.l., works lb. .53 - —

Zircon (G), gran., bgs., c.l., works. lb. .03½- —
5 tons to c.l., works lb. .03⅝- —
1 ton to 9,999-lb. lots, works. lb. .04 - —
smaller lots, works lb. .06½- —
milled, bgs., c.l., works lb. .04½- —
5 tons to c.l., works lb. .04⅝- —
1 ton to 9,999-lb. lots, works. lb. .04⅝- —
500 to 1,999-lb. lots, works. lb. .07½- —
Zircon (G) in barrels, 1c. higher.
Zirconium acetate, 13% soln. ZrO_2, c.l., 30,000 lbs. minimum, works lb. .23 - —
Hydride, cns., works lb. 7.00 - 8.45
Nitrate, dms., ex whse lb. 4.50 - 7.00
Oxide, 92½%-99%, white, grd., bbls., or bgs., works lb. 1.50 - —
lump, electric-fused, bgs., c.l., works lb. .44 - —
5-ton lots, works lb. .44½- —
1 ton to 9,999-lb. lots, lbs., works lb. .45 - —
CP, white, grd., bbls., or bgs., works lb. 1.50 - —
lump, electric fused, bags, 500 to 1,999-lb. lots, works lb. .45½- —
smaller lots, works, lb. .48 - —
milled, electric-fused, bgs., c.l., works lb. .59 - —
5-ton lots, works lb. .59½- —
1 ton to 9,999-lb. lots, works lb. .60 - —
500 to 1,999-lb. lots, works lb. .60½- —
smaller lots, works, lb. .63 - —
Oxychloride, cryst., ctns., 5-ton lots, works lb. .35½- —

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ACS New York Section Planning Statistics Talks

..The New York section of the American Chemical Society is sponsoring a series of ten lectures on "Statistics in Chemistry," to be given October 6 through December 8 in the Union Carbide & Carbon Corporation building, New York.

The dates and topics are:—October 6, "Control of Experimental Error"; October 13, "Statistical Evaluation or Errors of Measurement"; October 20, "Detection of Trends in Data"; October 27, "Basic Statistical Designs"; November 3, "Analysis of Variance"; November 10, "Concepts of Interaction and Confounding"; November 17, "Factorial Experiments"; November 23, "Recent Advances in Statistical Design"; December 1, "Locating Areas of Maximum Return," and December 8, "Case Histories of Statistical Applications."

All the lectures except the one on December 1 will be given by Dr. W. J. Youden, statistical consultant to the National Bureau of Standards, who has just completed his third speaking tour for the society. The December 1 lecture will be given by Dr. J. S. Hunter, of American Cyanamid Company, New York.

Zinc Mine Is Now Exhausted After Producing Since 1848

New Jersey Zinc Company, New York, by closing down its mine in Franklin, N. J., last week, expected major changes to the community of 4,000 persons in which it is located. The mine was shut down because the ore body had been exhausted, after having been worked by the company for the past 106 years. The closing meant lay-offs for 330 employees, sixty of whom are to be retired on pension because of their age.

The company had been aware since 1930 that the ore in its mine, a rich producer of franklinite, willemite, and zincite, was becoming exhausted. Estimates in that year set 1951 as the time when the last ore would have been removed, but the life of the mine was prolonged by three years by removing the supporting columns of ore in the works. The company, which had operated the mine since 1848, plans to transfer many of its employees in Franklin to its Sterling Hill Mine in Ogdensburg, N. J.

Strahl & Pitch Elects New Officers

Strahl & Pitsch, New York, has elected a new set of officers, as has its subsidiary, Babylon Chemical Company, Babylon, L. I. Elected president of both concerns is Herbert Baer, who succeeds Egbert Strahl, now chairman of the two firms. Robert C. Fisher has been named secretary of both Strahl & Pitch and Babylon Chemical, while William E. Strahl has been made treasurer of the two companies. Elsie E. Wedholm has been elected assitant secretary and treasurer of the parent organization, and Charles S. Bullock has become vice-president of the subsidiary.

Prentiss Drug Picks Sharp As Ass't to Sales Vice-Pres.

Robert D. Sharp, formerly southwestern sales manager for John Powell & Co., has joined Prentiss Drug & Chemical Company, New York, as assistant to John R. Stoddard, vice-president in charge of sales of insecticides and other agricultural chemicals. His headquarters will be in the New York office of Prentiss.

Mr. Sharp joined Powell's technical service department in 1950. He was named head of the company's entomological section in 1951, was appointed northeastern sales manager in 1952, and was transferred to the southwest the following year.

Organic Chemicals Data Offered

C. P. Chemical Solvents, Inc., Newark, N. J., has published a seventy-six page booklet entitled, "Organic Solvents and Chemicals." Alcohols, ketones, esters, glycol ethers and amines are among the groups of materials included. The descriptions include physical properties, uses, and special characteristics. A table for gauging contents of fifty-five gallon drums and a temperature conversion chart are included. Copies of the booklet are available from the company at 60 Park place, Newark 2, N. J.

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Textile and Leather Chemicals

Conditions in the textile and leather chemicals market continued steady last week, despite light trading. Consumers continued to operate in a hand to mouth manner for prompt requirements. Prices were without change and the majority of items were firmly held.

Offers of potato starch for prompt shipment from producing points were limited and well held at prevailing quotations. The Idaho market was firm at the recent fractional advance. Shipments from Maine also were maintained at former levels. Consumers, however, showed little interest in forward requirements, but absorbed good sized lots against former contracts. Activity in tapioca flour was confined to spot delivery. Trading in Brazilian and Siamese flour for shipment continued quiet. Offers from Brazil was freer and available at the recent decline. Steady demand was reported in corn starch and dextrin for actual needs.

Tanners limited interest in tanning materials to nearby shipment. Business was light and spotty. Shipments of most materials were offered liberally at prevailing prices.

Production of synthetic and silk broad woven goods totaled 525,723,000 linear yards in the second quarter of 1954, 5 percent less than the first quarter and 19 percent lower than the second quarter last year, according to the Census Bureau. Output of rayon and acetate fabrics amounted to 383,292,000 linear yards in the second quarter, compared with 402,378,000 in the first quarter and 510,093,000 in the second quarter last year. Nylon broad woven fabrics production in the second quarter was 93,957,000 linear yards, declining from 110,345,000 in the first quarter, but was higher than 81,952,000 produced in the second quarter in 1953.

Price Trends

Advanced
None

Reduced
None

Comparative Price Indexes
(100—1949 average)

Last week	Prev. week	Last month	Oct. 2, 1953
94.56	94.56	94.61	98.54

(For Current Prices see page 9)

Chemicals

Bichromates — Production of sodium bichromate and chromate in July totaled 7,559 tons, according to the Census Bureau compared with 8,968 tons in June and 10,177 tons in July last year. Stocks at producing plants amounted to 10,353 tons, July 31 against 10,176 tons, the previous month. Consuming demand showed moderate improvement for spot needs and against current contracts. Prices were unchanged and steady.

Sodium Acetate—Moderate demand was noted for prompt delivery. Prices were without change.

Sodium Hydrosulfite — Production was lower in July totaling 1,507 tons against 2,284 tons in June it was reported by the Census Bureau. Stocks at producing plants July 31 amounted to 1,542 tons compared with 1,602 tons, June 30. Trading was fair chiefly for prompt requirements. Prices were well held.

Sulfonated Oils—Conditions in this market were steady. Sulfonated tallow grades were stronger reflecting the higher cost of tallow. Other varieties were without change. Business continued spotty.

Sizing Materials

Albumin Blood—Buying interest was moderate for prompt delivery. Market was steady. Prices were unchanged at 65c. to 80c. per pound, according to quantity. Stocks were ample.

Corn Dextrin—Steady improvement was reported in consuming inquiry. Sales were more active for prompt needs. Prices were unchanged and steady. Gum was quoted at $8.85 per 100 pounds, paper bags carlots, New York delivery; canary, $8.65, dark $8.70, and white $8.53, same basis. Less carlots were 15c. per 100 pounds more.

Corn Starch—Business was improved, chiefly for immediate delivery. Market was quotably unchanged and steady. Pearl was quoted at $7.14 per 100 pounds, paper bags, carlots and powder, $7.25 per 100 pounds, New York basis. Smaller quantities were 15c. per 100 pounds higher. Visible corn supply amounted to 15,429,000 bushels for the week ending September 24, against 7,183,000 bushels for the same time last year, it was reported by the Chicago Board of Trade.

Egg Albumin—Consuming demand was spotty, and confined to actual needs. Prices were maintained at former levels. Flake was quoted at $1.27 to $1.29 per pound, and powder, $1.31 to $1.33 per pound, depending upon quantity. Technical was unchanged at 85c. to 87c. per pound, as to quantity.

Liquid egg production during August totaled 12,336,000 pounds, compared with 12,735,000 pounds in August last year and the 1948-52 average of 22,386,000 pounds, according to the Crop Reporting Board. The quantities used for immediate consumption and drying were larger than a year ago, but smaller for freezing.

Dried egg (egg solids) output totaled 1,215,000 pounds, against 1,979,000 pounds in August a year ago and the average production of 3,343,000 pounds. August production consisted of 35,000 pounds of dried whole egg, 685,000 pounds of dried albumen and 495,000 pounds of dried yolk. Production during August last year consisted of 1,111,000 pounds of dried whole egg, 483,000 pounds of dried albumen and 385,000 pounds of dried yolk.

Frozen egg production during August totaled 8,107,000 pounds, compared with 9,709,000 pounds in August last year and the average of 9,768,000 pounds. Frozen egg stocks decreased 20,000,000 pounds in August, compared with 19,000,000 pounds in August last year and the average decrease of 19,000,000 pounds.

Egg Yolk—While market was quiet, prices were without change and steady. Stocks on spot ranged from $1.04 to $1.07 per pound, according to quantity. Yolk production in August totaled 495,000 pounds against 385,000 pounds during August last year.

Potato Starch—Trading was still restricted to actual needs. Interest in forward delivery was reported light. The Maine market was steady, with light offers at 7¼c. per pound, carlots f.o.b. mills. Idaho starch also was maintained at the recent advance, with carlots held at 6.3c. per pound, f.o.b. mills and ½c. less for shipment to eastern points. Stocks on spot were in fair request. Prices were unchanged at 8¾c. to 9c. per pound, exwarehouse, as to quantity. Imported starch was inactive. Danish was unchanged at 7.3c. per pound, exdock and Dutch, 7⅞c. per pound, same basis.

Tapioca Flour—While business was restricted to immediate delivery, the market was unchanged and quite steady. Good quality Brazilian flour was quoted at 8½c. to 8¾c. per pound, exdock, for prompt shipment, with stocks on spot ranging from 9c. to 9½c. per pound, exwarehouse, as to quantity. Top grade Siamese flour was maintained at 7c. to 7½c. per pound, on spot, as to quantity.

Tanning Materials

Cutch — This market was unchanged and steady. Shipments were held at 8½c. per pound, exdock, plus duty. Trading was restricted by light offerings.

Mangrove Bark — Market was quiet. Offers for shipment were available at former levels. African bark was quoted at $69 to $70 per ton exdock; Ecuadorian, $55 per ton and Colombian, $58 per ton, same basis.

Quebracho Extract — Business was reported spotty, chiefly for prompt delivery. Solid ordinary guaranteed 63 percent tannin was unchanged at 11 31/64c. to 11 21/32c. per pound, exdock, plus duty, depending upon seller and clarified, 64 percent, 12 3/16c. to 12 23/64c. per pound, same basis.

Valonia—This market was dull and featureless. Prices were more or less nominal. Cups were unchanged at $48 per ton, exdock, and beards at $64, same basis. Extract was quoted at 8½c. per pound, exdock, plus duty.

Wattle—There was no improvement to the current light demand. Tanners continued to operate in a hand to mouth manner. Fair average bark was quoted at $98 per ton, exdock, and merchantable at $94 per ton, same basis. East African extract, 60 percent tannin was offered at 9¾c. per pound, exdock, plus duty, while South African remained nominal at 10c. per pound, same basis.

For Late Market Developments, See Page 4

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Industrial Organic Chemicals

There was no price activity initiated last week. Contract schedules for ethylene and propylene glycols, their oxides and the ethanolamines advanced October 1, as previously announced by producers. Other organics were relatively firm at current levels.

During the past two weeks the approach of a strike deadline for metropolitan truckers induced buying of most chemicals. Tankcar sales were not affected but drum quantity buyers created a wave of buying. The activity paralleled the flurry experienced in the late weeks of August prior to the September 1 postponement. A last minute decision delayed the strike for the second time. The reprieve is for fifteen days.

Acetone continued to move in good volume, getting some additional call from the truck situation. The price was said to be firmer, yet some sources did not feel the market was completely out of the woods. Generally good solvent call not only sustained sales for acetone, but for alcohol, MEK, butyl alcohol, and all other solvents. These markets were also very active due to the trucking problem.

Glacial acetic acid was moving slightly better. Prices were soft in certain areas, but held up as a whole. Diisobutylene was short. Epichlorohydrin was evenly balanced. Ethyl ether was in a long supply position. Isopropyl alcohol was improved with the firmer ethyl alcohol picture.

Methanol was moving at a faster pace for antifreeze canning operations, as was ethylene glycol. This was due to some early frost. Refined glycerine was moving at a very satisfactory pace. Producers looked for demand to hold up for the rest of the year. Crude material was still not too abundant and prices were firm at former levels. The glycols and amines that advanced in contract prices enjoyed a flurry of inventory buying before the rise.

Acetic Acid—Producers indicated that the market for glacial acid was holding up fairly well. There has been a slight improvement in demand from rayon and more interest was noted from textile outlets in the south. In general, the market was considered better than it was a month ago. Prices remained steady in most areas. Soft spots in the price picture continued to be noted in certain local areas, it was said. There was also a little weakness in prices due to competition among resellers. However, bulk shipments held up and official quotations remained at the $10 per 100 lbs. level.

Production of synthetic acetic acid in July totaled 37,290,390 pounds, as against 29,062,620 pounds produced in June and 46,962,674 pounds turned out in July, 1953, according to Tariff Commission figures. Output of natural acid in July of this year totaled 1,464,000 pounds, while the figure was 1,474,000 pounds in June and 1,908,000 pounds in July, 1953.

Acetone—Producers' views on the strength of this market varied. Many sources indicated that any price shading existing now was for government business. Other producers felt that the volume being sold eliminated the necessity for price concessions. Even with the volume of sales being made, there was ample acetone around, a source said. Demand from specific areas, such as cellulose acetate, was pointed at as not being what it might be. General call for solvents has been pretty good, and acetone was reported to be enjoying sustained buying from this direction. One producer indicated September sales were above expectations.

Buying interest for most industrial organics was said to have been given a boost by the developments in the trucking situation for the metropolitan area. Many consumers were interested in keeping inventories at maximum levels in preparation for a possible strike; however, the threat was put off for fifteen days. The buying activity paralleled the flurry of activity in the late weeks of August prior to the September 1 postponement.

Alcohol—Producers continued to move a good volume of material. One source seeing a nice even market, anticipated it to stay at current levels without much change in either direction during the last quarter. Other sources reporting high activity, state that demand was good in many diverse directions. In addition, this market also received extra calls due to the trucking situation. Buyers took October deliveries early in preparation for the strike.

Figures on production, withdrawals, and stocks released by the Alcohol and Tobacco Tax Division of the Internal Revenue Service, pertaining to ethyl, completely denatured, and specially denatured alcohol during August, 1954, compared with August, 1953, are as follows:—

Production

	Gallons 1954	Gallons 1953
†Ethyl	32,850,468	31,939,968
*Completely denatured	10,348	63,148
*Specially denatured	16,170,154	18,994,688
Withdrawals		
†Ethyl, tax paid	922,853	1,943,590
tax free	30,217,564	35,637,533
*Completely denatured	10,778	58,554
*Specially denatured	15,867,494	17,802,372
Stocks		
†Ethyl	57,508,780	71,882,342
*Completely denatured	13,887	23,142
*Specially denatured	6,987,991	6,779,752

*Wine gallons. †Proof gallons.

According to the Alcohol and Tobacco Tax Division, materials used in industrial alcohol plants in August, 1954, and August, 1953, were as follows:—

	Pounds 1954	Pounds 1953
Corn and corn products	2,210,047	5,039,664
Rye and rye products	2,693,100	.....
Malt and malt products	487,500	697,192
Wheat and wheat products	547,939	6,097,542
Sorghum grain and sorghum grain products	6,834,672	.....
Other grain	.....	.....
Total grain	12,773,258	11,845,898
Ethylene gas	8,543,198	4,551,293
Other materials	17	227,374
	Wine gallons 1954	**Wine gallons 1953**
Molasses	5,411,047	11,080,223
Ethyl sulfate	15,523,288	13,475,281
Sulfite liquors	23,872,000	24,892,000
Other materials	3,292,243	4,825,581
†Products used in redistillation	4,097,419	1,519,193

†Proof gallons.

Allyl Alcohol — There has been no marked change in this market. Sales volume here was rather small, compared with other large scale industrial organics. Prices were firm and unchanged.

Butyl Alcohol—Producers of fermentation and synthetic normal alcohol indicated that they were moving their production right along. This market also received some added interest due to the trucking situation. Consumers were taking deliveries on October business before the deadline. By the time the end of the week rolled around, some buyers were looking for immediate deliveries which were impossible, it was said. Prices were firm and unchanged.

Di-isobutylene — Producers indicated that there was no significant change in this market. Supplies were said to be short of overall consumption requirements primarily due to the fact that there were only a few producers and capacity was not not large enough to handle all calls. Prices were unchanged.

Epichlorohydrin — Producers indicated that the market was in a satisfactory balance. A relatively good demand from epoxy resins moved a nice volume of material. Another outlet that its building up interest was seen in the use of epichlorohydrin as an HCl absorber. This facility finds particular use in chlorinated insecticides, it was said. The possible deterioration of the insecticide is halted and the HCl is prevented from attacking the container too, the source added. Movement in this direction so far has been limited; however, the potential market was felt to be good.

Ethanolamines — Increased contract prices along with the ethylene oxide and glycols advances took place October 1 for mono-, di- and tri- ethanolamines. Prior

This market reports on industrial aliphatic organic chemicals. Reports on industrial aromatic organics may be found in the Coal Chemicals market, while reports on fine and rare organic chemicals appear in the Drugs, Fine Chemicals, Botanicals market.

Price Trends

Advanced
None

Reduced
None

Comparative Price Indexes
(100—1949 average)

Last week	Prev. week	Last month
132.06	132.06	132.06

(*For Current Prices see page 9*)

For Late Market Developments, See Page 4

to the increases the amines experienced a flurry of inventory buying. Some producers reached a soldup position last month, but no real shortage developed. It was felt that September buying will result in fewer calls in the first half of this month.

Production of the three ethanolamine isomers in July totaled 5,196,317 pounds, compared with 5,500,352 pounds produced in June and 4,951,888 pounds turned out in July 1953, figures from the Tariff Commission relate.

Ethyl Chloride—Producers reported the market in a balanced position, supply and demand being approximately equal. Most of the demand in this market stems from output of tetraethyl lead. So far this year has been a very good one, it was added. Fluctuations in consumption of gasoline due to seasonal influences were not directly reflected in the market for ethyl chloride. Demand was normally steady the year round, trade sources said. Prices were firm at previous quotations. Supplies were ample for present demand.

Ethyl Ether—No significant change was noted in this market. Supplies were in a long position, a source stated. Demand has not shown any indication of picking up. Prices were unchanged at former levels.

Total production of technical and USP material in July was 2,530,669 pounds, compared with June output of 3,287,449 pounds and 4,346,472 pounds in July, 1953, according to statistics from the Tariff Commission.

Ethylene Glycol—All derivatives of ethylene oxide were moving better because of the stockpiling on the part of consumers. Prices advanced for contract schedules October 1, which was the reason for much inventory building in the past month. Aside from this incentive, buyers were taking ethylene glycol faster because the canning season for the antifreeze trade was reaching its full tempo. The appearance of some scattered colder weather was spurring such activities on. Prices were firm at their newly established levels.

July production of ethylene glycol totaled 51,965,015 pounds, compared with 44,868,191 pounds produced in June and 57,143,585 pounds turned out in July of last year, according to the Tariff Commission.

Glycerine — The market remained steady. A good volume of refined material moved into several consuming channels. Production from "soapers" was picking up and synthetic output has been steady. It was felt that the level of activity now enjoyed in the market would hold up through the last quarter.

Although there has been more crude glycerine available there has been too much, it was said. Consequently, a divergence existed between supplier's and buyer's ideas of prices. Most refiners felt that crude schedules were at a "ceiling" for current refined prices. Thus, when a supplier had crudes and wanted to sell on an f.o.b. basis rather than delivered, an impasse was frequently reached. Prices were still nominal at 21c. per pound for soaplye and 23c. per pound for saponification.

It was said that there has been a little added interest in the market due to the trucking situation. However, most of the pickup was from smaller consumers who bought in drum quantities. No real pressure was being felt from this direction. A source stated that buying from resin accounts was not as strong as could be. There were buyers taking less than normal and already in a good stock position for October. Many consumers of refined glycerine were taking a good volume of material consistently.

Isopropyl Alcohol—Fairly good movement of this material was evidenced in the market. Total demand had been cut earlier in the year when ethyl alcohol prices were weak. However, the subsequent firmness for ethanol also resulted in a pickup of interest for isopropanol. Prices were unchanged from previous

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quotations. Adequate stocks were available to take care of consumption requirements.

Methanol—Producers indicated that movement of this alcohol was picking up momentum as the colder weather drew the antifreeze season nearer. It was added that some frost that was beginning to appear in colder regions has stepped up the pace of canning activity. Prices were firm at former levels. No revisions in schedules were anticipated. Supplies were sufficient to take care of current demand.

Natural methanol production in July totaled 152,000 gallons, compared with 151,000 gallons in June and 146,000 gallons in July, 1953, according to figures from the Bureau of Census. Stocks at producing plants were up to 649,000 gallons on July 31, from 586,000 gallons held at the end of June.

Methylal—There have been no changes in the amount of activity in this market. Producers indicated that there were some exploratory developments for methylal; however, it doesn't have too wide a use yet. Prices were unchanged. Supplies were ample.

Methyl Ethyl Ketone—Producers indicated that demand in this market was very good. Overall solvent activity was very good from many diverse directions. Where there has been a slight slowdown in consumer wants because of model changeovers going on, the loss appeared to be offset by improved buying from other directions. Trade sources looked for continued good sales for MEK and solvents in general.

Propylene Glycol—Contract schedules of this polyol, propylene oxide, dipropylene glycol and tripropylene glycol all moved up 1½c. across the board as previously announced by producers. Consumers aware of the pending increase, bought a good share of their October needs in advance.

Casein From Argentine At Higher Import Level

The Foreign Agricultural Service reported last week that exports of casein from Argentina during the first six months of this year were about one-third greater than a year ago, due mainly to increased takings by the United States, Italy and the United Kingdom.

The United States imported 27,600,000 pounds of Argentine casein between January and June, compared to 24,000,000 pounds last year. Sales to the United Kingdom have risen 69 percent to 5,800,000 pounds during the first half of this year, and Italy has taken during the period 7,300,000 pounds compared to only 470,000 pounds a year ago.

Polypropylene Glycols Information Is Published by Carbide & Carbon

A technical bulletin on the polypropylene glycols has been issued by Carbide & Carbon Chemicals Company, New York, a division of Union Carbide & Carbon Corporation. Physical properties, specifications, and shipping data are included for the series 150, 425, 1025, and 2025. A table of compatibilities with various materials is also given. Copies of this new technical bulletin, F-7220, are available from the company at 30 East 42 street, New York 17.

Petroleum Ass'n Re-elects A.W. Scott Its President

A. W. Scott, president of Wolf's Head Oil Refining Company, Oil City, Pa., has been re-elected president of the National Petroleum Association. Other re-elected officers are:—First vice-president, Fred G. Bannerot, jr., Elk Refining Comany, Charleston, W. Va.; second vice-president, Paul R. Beck, Pennsylvan Refining Company, Butler, Pa.; recording secretary, E. M. Lyons; treasurer, G. B. Hunter, Quaker State Oil Refining Corporation, Oil City, Pa., and general counsel, Fayette B. Dorr.

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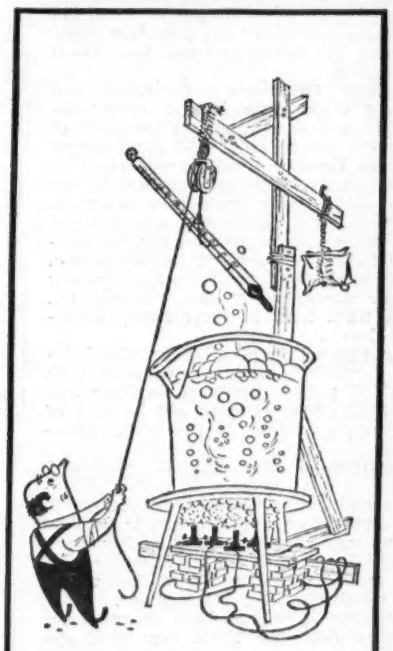

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Petroleum Derivatives

Butane and propane prices were raised ½ cent a gallon, effective October 1. The increase brought tankcar prices in the New York harbor area to 8 cents per gallon and in the group three area to 3½ cents per gallon. Consumption of liquefied petroleum gases has been moving up steadily, in line with the usual seasonal trend. The largest advances in consumption lay just ahead, however, as the full effect of winter heating needs were felt. Supplies were currently sufficient to fill most needs without difficulty. No. 2 fuel oil and kerosene were raised in price at the New York harbor and at other points along the eastern seaboard as a reflection of higher wholesale and increased shipping costs.

The market for solvents and diluents held its own in reference to prices. Sales were moderate, as most producers reported a satisfactory third quarter. The slowdown in the automobile industry affected demand for solvents used in finishes, but the slowness in this direction seemed to produce no extensive overall effect on the market. Toluol supplies were sufficient to maintain a fairly easy situation. Government requirements remained on the light side. Xylol moved quite well, and was available in sufficient amounts to fill consumers' needs without difficulty. Benzol prices were reported quite firm as this material moved into a period of quite active interest.

Partial aromatic solvents were moving pretty well, according to most producers. Prices were steady. Aliphatics received a fairly good call, but showed no large change over the past weeks. Microcrystalline and paraffin waxes moved briskly. Inventories remained low for most grades, as most current production was required to fill consuming needs. Petrolatums maintained a moderate demand, and were in ample supply.

Price Trends

Advanced

Butane, indust., tanks, ½c. per gal.
Propane, indust., tanks, ½c. per gal.

Reduced

None

Comparative Price Indexes

(100—1949 average)

Last week	Prev. week	Last month	Oct. 2, 1953
104.75	104.40	104.40	105.37

(For Current Prices see page 9)

Solvents and Diluents

Benzol—Prices were reported very firm at current levels by industry sources. No revisions were expected for the weeks immediately ahead, but some sources maintained that prices might be pushed upward later in the year. The long-term outlook for supplies indicated a narrowing margin between the amount of material available and consumers' needs. Industrial users were expected to increase their requirements over the coming thirty to sixty days, adding substantially to the strength, marketwise, of this material.

Mineral Spirits—Sales hit a fairly good average over the past week, according to reports in the industry. Producers were by no means hard-pressed in their efforts to supply consumers, and supplies occupied a comfortable position. Prices for regular and for specially refined grades were steady at previously listed quotations.

Partial Aromatics—Most producers reported that sales during September held up quite well. The slowdown in the automobile industry was reported to have resulted in a noticeable decline in sales, but did not affect manufacturers seriously. The diversified interest in aromatics accounted for the continued good showing, it was stated. In almost all instances, however, no actual shortages were encountered. Prices held steadily at previous postings.

Toluol—Consumers filled their requirements without difficulty as this material remained in the balanced supply state it has occupied recently. The level of government ordering for military requirements remained no greater than it has been over recent weeks, adding significantly to the easiness of the market as a whole. Industrial consumption was expected to increase slightly during the final quarter in line with expected increased activity in consuming industries. The export market remained quiet. Most European users were felt to be well supplied for the immediate future, it was stated.

VM&P Naphtha—This market remained without special feature over the week. Prices were considered realistic at their present levels, and no changes were looked for in the coming weeks. Sales have held up reasonably well, industry sources reported, but a larger demand could be filled without causing delay in shipments.

Xylol—This material was marked by the same features that have been noted for other aromatics, namely, a reasonably brisk demand combined with easily adequate supplies. Sources in the industry saw no reason to expect basic changes in this balance. Prices remained steady over the past week.

Crude Oil Stocks

Stocks of domestic and foreign crude petroleum at the close of the week ended September 18 totaled 272,695,000 barrels, according to data reported to the Bureau of Mines. Compared with the total of 273,337,000 barrels for the preceding week, this represents a decrease of 642,000 barrels comprising a decrease of 330,000 barrels in stocks of domestic crude and a decrease of 312,000 barrels in stocks of foreign crude.

Lighter Fractions

LPG's—Prices for propane and butane were advanced ½ cent per gallon, bringing the tankcar price to 8 cents per gallon in the New York harbor area, and the group three price to 3½ cents. The changes became effective October 1. The cause of the increase was ascribed to the seasonal advance in sales. As yet this increase has remained very much in line with comparable levels of last year, it was stated. Supplies are still quite good and are able to take care of all consumers in most areas. Producers pointed out, however, that heating needs will increase greatly between now and the end of the year. In the Los Angeles petroleum market, interest in propane lagged.

The daily average production of natural gas liquids in July was 27,000,000 gallons, according to figures released by the Bureau of Mines. This total is 700,000 gallons per day less than in June. Most of the decline was reported to be in production of propane. Stocks of liquefied gases at plants and terminals increased 21,000,000 gallons in July, compared with an increase of 53,000,000 gallons in June, according to the same source. Stocks of liquefied gases at the end of July totaled 383,000,000 gallons, of which 255,000,000 gallons were stored underground.

Waxes

Microcrystalline—The market was described as quite strong by the majority of sources in the industry. Purchases were sufficiently heavy to take most current production and to keep inventories at an extremely low point. Consumers were buying no more than their normal quantities, it was pointed out, and this rate of demand was sufficient to keep wax production moving briskly. No price changes were expected during the final quarter.

Paraffin—Crude scale and refined grades received a brisk call throughout most of the past month. Production was able to fill most needs of domestic consumers, but with very little material to spare. Prices were steady as previously listed and were expected to hold without change in the week just ahead.

Miscellaneous

Fuel Oil—A major supplier raised prices for No. 2 oil in the New York harbor area by 0.4c. per gallon, and other suppliers followed suit later in the week. The changes resulted chiefly from a firmer wholesale market and from increases in shipping costs, and were part of a firmer price schedule along the eastern seaboard.

Kerosene—Prices for kerosene were advanced 0.2c. per gallon in the New York harbor area, in conjunction with a firmer market for fuel oil. The increases were made in schedules for barge, tankcar and tankwagon deliveries.

For Late Market Developments, See Page 4

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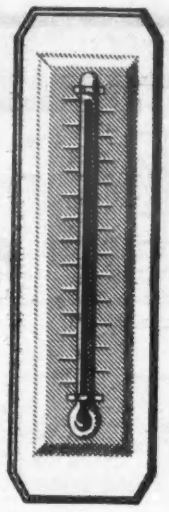

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Coal Chemicals

Price stability continued to be a feature of the coal chemicals markets. No price revisions for the start of the last quarter were reported. Demand in several lines continued to strengthen.

Buying interest for tar acids was reported up by several sources. However, some producers still felt that there were soft spots in the overall tar acid picture. On the positive side, export demand for meta-para isomers was stressed. Demand for synthetic phenol was improving. It has a way to go because production capacity is so vast. Calls for natural phenol grades could be better. Cresylic resins were picking up interest for cresols and cresylic acid. There was also steady call for tricresyl phosphate in these markets.

Consumer interest in industrial refined naphthalene was good. Producers were also moving a little more crude grade. Interest in imported crude grades has not changed. Prices of imported material have not softened, despite the fact that domestic crude failed to advance. The aromatic markets were basically unchanged. There were no real surpluses and there were no shortages either. Benzol and toluol were in a virtually soldup position, while xylol demand has kept the market a little snug all along.

Aniline demand was improving, as was call for many intermediates. Interest from the rubber industry and from textiles was getting better. It was said that there was still room for improvement all around, but the trend was good. Phthalic anhydride demand was up slightly. Maleic anhydride demand was fair. There was reasonably good call for a-naphthol and a-naphthylamine. Vinyl pyridine was moving very well. Demand for isonicotinic acid was steadier.

Steel operations in the week ending October 3 were scheduled to be at 68.9 percent of theoretical capacity, or an index rating of 102.2, according to the American Iron and Steel Institute. This was equivalent to 1,642,000 tons of steel, compared with 1,637,000 tons produced the previous week, 1,525,000 tons one month ago, and 2,149,000 tons one year ago.

Basic Products

Benzol—There has been no significant change in the situation for any of the light oils. Benzol production, because it was low, was approximately at consumption levels. Demand from many directions has been reasonably good. However, the steel production rate has been important. Trade sources realized that they would have benzol surpluses if steel output were higher and benzol consumption were not substantially stronger. Nevertheless, the current market presented a firm picture. Prices were stable. Producers were in a soldup position. Consumers generally took their full commitments at regular intervals.

The next month or so looked good, consumptionwise. Styrene has been moving well, although there was less going to rubber since the government stockpiling program was retarded. Styrene for plastics output was very active and heading for the traditional fall producing season. Synthetic phenol, also derived from benzol, was moving at a fair volume. Here, too, a seasonal upturn was anticipated.

Total production of specification and industrial grades of benzol from tar distillers, cokeoven operators and petroleum producers in July amounted to 19,778,426 gallons, compared with 18,484,662 gallons in June and 23,678,976 gallons in July 1953, according to figures from the Tariff Commission.

Cokeoven operators produced 10,439,632 gallons of the July total, this year, 10,790,164 gallons of the June figure and 13,263,596 gallons of the July 1953 amount. Tar distillers produced 1,080,937 gallons in July 1954, 1,458,636 gallons in June and 4,237,957 gallons in July of last year. Petroleum production was 8,257,857 gallons in July, 6,235,862 gallons in June (revised) and 5,027,819 gallons in July 1953.

Creosote—There was no indication of a pickup in demand for creosote. Railroad buying policies limited purchases to immediate maintenance needs. Freight earnings have been quite low and no increase in demand for the wood preservative was looked for until the situation improves.

Tar distillers and cokeoven operators turned out a total of 13,151,002 gallons of creosote oil in July, compared with 15,052,285 gallons the previous month and 11,448,084 gallons in July 1953. Statistics are from Tariff Commission reports.

In July, tar distillation output was 10,435,538 gallons (partly estimated), while it was 11,622,287 gallons in June and 8,334,894 gallons in July of last year. Cokeoven production for those months was 2,715,464 gallons, 3,429,998 gallons and 3,113,190 gallons, respectively.

Cresols — There was some variance among individual producer's reflections of the market for tar acids. While some sources reported good activity in general for cresols and cresylic acids, other producers noted one or two soft spots for specific grades. Where one source said demand has been very good since the middle of August, another producer added that September sales turned out above anticipated levels. Trade members indicated that there has been a substantial call for export of meta-para fractions, and at domestic prices.

m-p-Cresol production in July amounted to 1,300,089 pounds, while June production was 1,451,000 pounds, according to Tariff Commission figures. Mixed o-m-p-cresol output in June totaled 563,767 pounds in June. July statistics were not available.

Cresylic Acid—Same sources said that the market has been better than they expected. And some producers still did not feel that the market appeared in good condition from every aspect. Demand from cresylic resins has picked up with higher fall movement. Prices remained firm at former levels. Adequate supplies were available to take care of most immediate needs.

Importers relate that the future ADF cresylic market could almost be predicted on the basis of past performance in recent months. Demand was steady at a reasonable level of activity. Prices were settled at the 75c. per gallon quotation. Ample acid was available.

Production of refined cresylic acid in July totaled 3,217,385 pounds, against 2,889,396 pounds in June and 3,453,274 pounds in July, 1953, information from the Tariff Commission relates.

Naphthalene—This market was not greatly changed. Domestic demand was fairly good and showing some improvement. Producers indicated that they have been moving a little more crude. Call for industrial refined material has been good. Refined was moving largely to intermediate uses such as b-naphthol, naphthylamines and other naphthalene derived materials. Movement of crude grades for phthalic anhydride was comparatively steady. The volume in this direction was picking up slightly, but still had room for more improvement.

Importers indicate prices for hot-pressed naphthalene remained stable at the 4½c. to 4¾c. range. There was ample material being offered at these prices. However, takings were somewhat limited by the fact that domestic prices were at 5c. per pound and have given no indication of increasing in the last quarter, as was anticipated earlier by some trade sources.

Phenol—Demand for synthetic phenol

Price Trends

Advanced
None

Reduced
None

Comparative Price Indexes
(100—1949 average)

Last week	Prev. week	Last month	Oct. 2, 1953
114.56	114.56	114.57	114.61

(For Current Prices see page 9)

Production Estimate

Estimated output of coal chemicals recovered from cokeoven operations during the week ending October 3, was as follows:—

Ammonia liquid, NH_3	lbs.	768,118
Ammonium sulfate	lbs.	27,761,934
Benzol	gals.	2,655,491
Coaltar	gals.	12,180,163
Creosote oil	gals.	680,333
Naphthalene, crude	lbs.	1,876,404
Pyridine, refined	lbs.	19,752
Toluol	gals.	522,321
Xylol	gals.	139,359

For Late Market Developments, See Page 4

was picking up. A few producers felt that activity last month finally turned out better than expected. It was said that demand for natural phenol still left something to be desired. Phenolic resins have been showings signs of expansion with fall business. However, the total volume of phenol moving was below production capacity. This was partly because of the large production capacity in the country and additional facilities that have come into the market this year.

Toluol—Production continued to balance current demand in this market. Suppliers have moved a steady volume to industrial finishes, detergents and other outlets for civilian use. But, very little toluol has been going for defense outlets. What has been moving for nitration was virtually all petroleum toluol. Thus, industrial demand alone has held the market in its current position without any rupture of the price structure or supply status.

Toluol production by cokeoven operators and all other sources in July totaled 13,062,437 gallons, whereas June output was 12,820,653 gallons and 9,997,309 gallons were put out in July, 1953, according to figures from the Tariff Commission. Cokeoven operations in July accounted for 2,633,760 gallons of the total, compared with 2,697,170 gallons in June and 3,121,985 gallons in July of last year. The remaining 10,428,677 gallons produced by all other sources in July, 1954, is a partly estimated figure, as was the 10,123,483 gallons from these sources in June.

Xylol—Producers moved this aromatic with consistently good volume. Demand for solvents from alkyd resins and from lacquer outlets was good enough to move current production quickly. Producers have not had any surplus xylol for many months. There was really no critical shortage since there was additional petroleum xylol available. Price schedules were firm at previously quoted levels.

Total production of crude xylol from all sources including coaltar and petroleum material was 9,794,424 gallons in June, as against 11,613,614 gallons in June and 5,129,847 gallons in July 1953. The figures are from Tariff Commission reports.

Intermediates

Aminoazotoluene—Not too much material was moving in this market. Producers revealed that there was not very much call for the item. Prices for the base ranged from $1.03 to $1.18 per pound. The range included solid and paste material of varying degrees of purity; however, sales were on a 100 percent basis. Thus, the weight of water included was removed from the sales price. The hydrochloride was also available at 83c. per pound.

Aniline—Producers indicated that activity in this market continued to pick up. Demand was not only better from the rubber industry since work was resumed after labor disputes there, but there was also added interest from textile outlets. Prices were firm at previously established levels. Production was adequate to take care of all anticipated requirements, in fact, facilities were capable of handling a larger demand.

Total production of aniline in July was reported by the Tariff Commission as being 6,036,965 pounds, partly estimated, as against 7,443,709 pounds turned out in June.

Isonicotinic Acid — Producers reported that the market for this acid has been fairly good lately. Activity was not up to the levels that prevailed when the material was first recognized for use in treatment of TB. Trade sources currently feel that isoniazid was developing into a good steady market for the acid.

Maleic Anhydride—Producers said the market has been fair. There was a small amount of increased demand during the past month. However, sales have not improved as much as many trade sources had been hoping they would. Polyester resins activity has not yet reached proportions that were being predicted. It was felt that the market was still in its growing stage. Polyesters are being used for piping materials, to make acid and alkali resistant tankwagons, structurally in buildings and for molded bodies of automobiles and boats. There were other uses and still more outlets to be developed. However, the amount of maleic going to polyesters indicated the market has a long way to go.

a-Naphthol—Demand in this market has remained relatively steady. Suppliers indicated that activity has been fairly good for the alpha isomer. Prices were firm at former quotations. Adequate stocks were readily available to cope with current needs.

a-Naphthylamine—Sales in the market were considered rather fair. Demand was improved slightly for many items as the general level of activity advanced. More business was being done with textile outlets in recent weeks. Calls from that direction have perked up movement of many deystuff intermediates. Prices were generally firm at former listings.

Phthalic Anhydride — Producers generally indicated that activity for this intermediate was fairly good. Demand was felt to be increasing in recent weeks. The call has been better from plasticizers and more improvement was anticipated from alkyd resins. Production capacity was still capable of handling a larger demand for phthalic. No price revisions were anticipated.

Vinyl Pyridine — Producers indicated that there has been a good market for this substituted pyridine. Production was moving out to fill orders as fast as it was being made. Prices were firm and unchanged.

Blaw-Knox Appoints V.P.

E. C. Rook has been appointed vice-president and general manager of the equipment division of Blaw-Knox Company, Pittsburgh, Pa. Mr. Rook succeeds G. L. Dirks, who has resigned. He has assumed the management of the company's largest fabricating unit, which has its main plant at Blawnox, Pa., and a branch plant at Elyria, Ohio.

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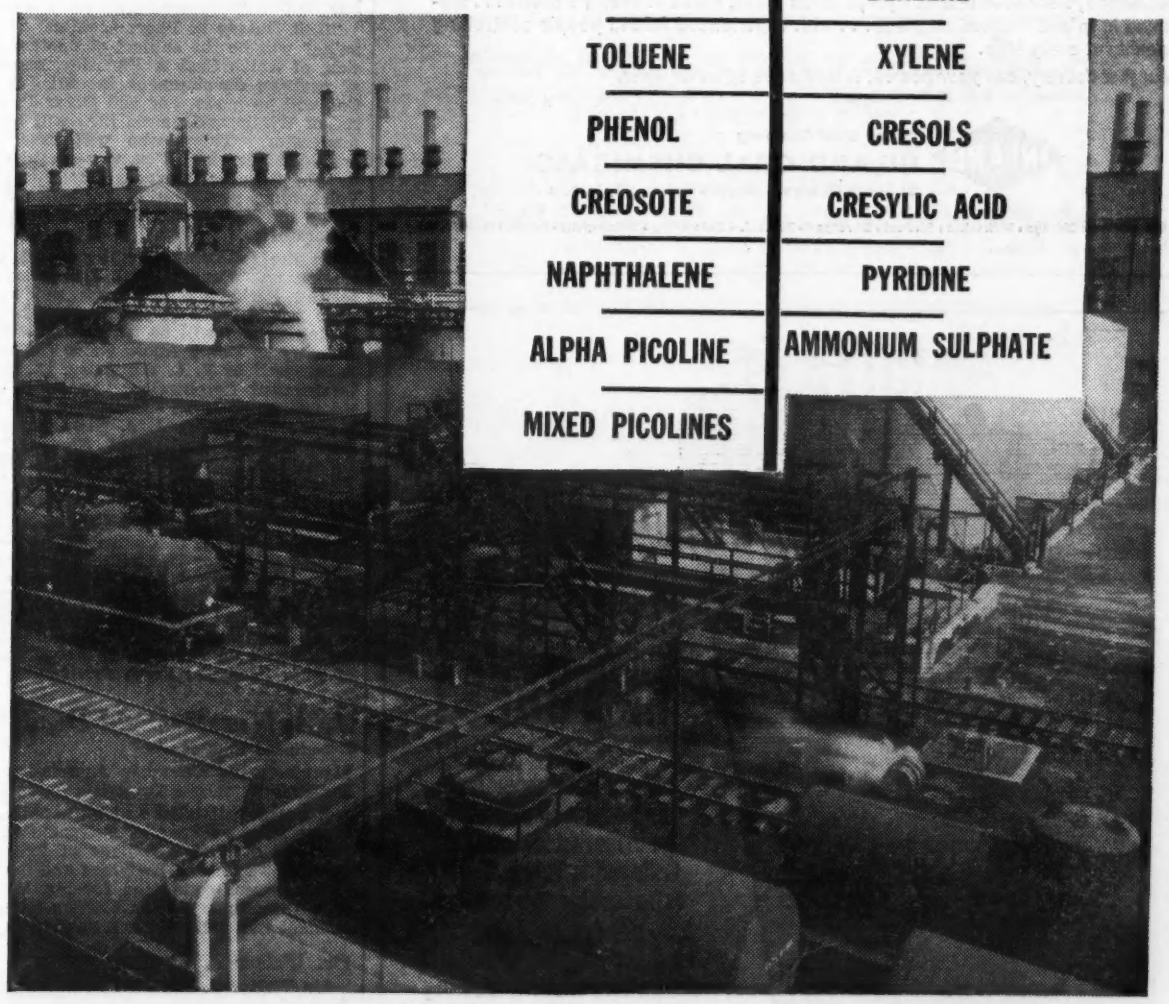

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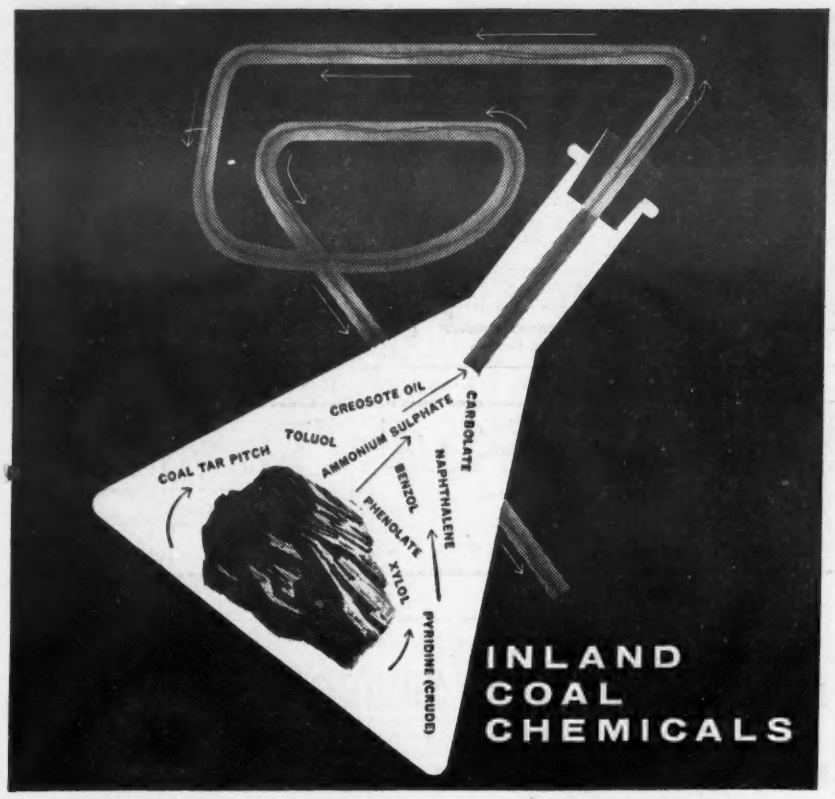

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Yellow Dyes Added to Line By American Cyanamid Co.

Two new colors have been added to its line of stilbene direct dyes, it has been announced by the dyestuff department of American Cyanamid Company, New York. Both dyes, "Pheno Fast Yellow 8G" and "Pheno Fast Yellow 6G" were designed primarily for beater dyeing in the paper trade. Both colors are bright green-shade yellows. "Pheno Fast Yellow 8G" is an extremely green-shade yellow, differing from anything previously available, according to the company. Both dyes have suitable dyeing characteristics for napkin and tissue grade papers, and are alkali resistant, non-feathering, and produce more uniform paper, the company stated.

Dr. Reppe Giving Lectures Under Grant From Koppers

Dr. Walter J. Reppe, research director of Badische Anilinund Soda Fabrik in West Germany, and currently Koppers visiting professor of chemistry at Carnegie Institute of Technology, Pittsburgh, Pa., started a series of lectures at Carnegie Tech under a Koppers' grant last Friday. The five remaining lectures in his series will be given today, October 6, November 4, November 8 and November 9. Dr. Reppe will tour chemical installations in the United States and Canada before returning to west Germany late this year.

Packagers Will Probe

—Continued from page 7

sign and Length of Run," by John Last, of Wilkata Folding Box Company, and "Bottles, Caps and Cap Liners," by William Kiner, of Armstrong Cork Company.

"Unit Dosage in Pharmaceutical "Packaging" will be the subject of another session, of which Carl B. Burnside, manager of package development for Eli Lilly & Co., will be moderator and Oscar P. Norris, of Winthrop-Stearns, Inc., will be comoderator. Those who will take part are:—Dr. Sereck H. Fox, vice-president of R. P. Scherer Corporation; Lloyd I. Volckening, president of Ivers-Lee Company, and G. W. Borkland, of Borkland Laboratories.

On the following day there will be a session on "Fundamental Properties Affecting Packaging Printing," which will have L. R. Ayers as chairman. The following papers will be presented:—"What Industry Is Doing About Color Control—A Survey," by F. L. Wurzburg, jr., of Interchemical Corporation; "Practical Considerations on the Printability of Packaging Materials," by J. J. Schwenkler, of Container Corporation of America, and "Gloss and Its Relationship to Other Functional Properties of Lacquer," by Paul H. Yoder, of Pyroxilin Products, Inc.

Dr. L. W. Elder will be chairman of a food seminar. L. C. Cartwright and P. H. Kelley, of Foster D. Snell, Inc., will presen a paper on "Case Histories in the Solution of Packaging—Odor and Flavor Problems," and Dr. Robert E. Hardenburg, of the Department of Agriculture, will offer a paper on "Ventilation Requirements of Film Packaged Fresh Produce."

A. A. Wasserscheid Dead

—Continued from page 7

Manufacturing Chemists Association and National Wholesale Druggists Association.

A noted philatelist and bibliophile, Mr. Wasserscheid served as a trustee of Columbia University's College of Pharmacy from 1933 to 1942. Religious and Masonic services were conducted for Mr. Wasserscheid September 30 in Garden City. Interment was private the following day.

Dr. Walter F. Rittman

Dr. Walter F. Rittman, a pioneer in the field of petroleum engineering and head of the engineering department of Carnegie Institute of Technology from 1921 to 1933, died September 26 in Pittsburgh, Pa. He was seventy years old. Dr. Rittman was with the Bureau of Mines from 1914 to 1921. In 1915 he gave the government his patent on a process for cracking petroleum which increased the output of gasoline and made production of toluol and benzol possible from this source for the first time. Dr. Rittman also served as a consulting engineer for the State of Pennsylvania and for the Department of Agriculture. He retired in 1950.

Millmaster Development Mgr.

Howard E. Milius has become associated with Millmaster Chemical Company, New York, as manager of product development. Mr. Milius was formerly sales manager for Humphrey-Wilkinson, Inc., North Haven, Conn. Previously he had been associated with E. I. duPont de Nemours & Co. for seven years at Gibbstown, N. J., and Grasselli, N. J. From 1947 until 1950 when he joined Humphrey-Wilkinson, Mr. Milius was with Antara Chemicals, a sales division of General Aniline & Film Corporation.

Raymond Welts

Raymond Welts, advertising manager for Dewey & Almy Chemical Company, Cambridge, Mass., died September 21 in that city. He was fifty-three years old. Mr. Welts joined Dewey & Almy in 1948.

David Fishkind, production manager of Verona Chemical Company, Newark, N. J., died September 27 in South Orange, N. J. He was fifty-nine years old.

Henry F. Harrison, former vice-president and director of West Virginia Pulp & Paper Company, New York, died September 27 in Greenport, N. Y. He was eighty-seven years old. Mr. Harrison retired from West Virginia Pulp in 1945.

Harry M. Hoberg, administrative assistant in the production research department of Standard Oil Development Company, New York, died September 29 in White Plains, N. Y. He was fifty-one years old.

William J. Waldron, industrial oil representative in Westchester County, New York, for Socony-Vacuum Oil Company, New York, died September 23 in Scarsdale, N. Y. He was fifty-three years old.

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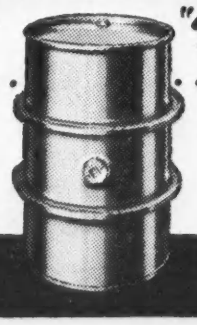

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Agricultural Chemicals

Index advanced last week to 110.77 from 110.59 in the preceding period. Domestic steamed bone meal was priced higher in response to an increased stockfeed demand and a tightening of available supplies. Hoof meal advanced under increased buying for fertilizer use. The price of sewage sludge was also lifted. The only decline was in animal tankage which was confined to the local market and attributed to a slow demand. Inquiry for castor pomace has increased with producers not offering. It was reported that bids up to $3 per ton over the last sale failed to meet with consideration.

Turn of the month brought no decisive change in the movement of the basic fertilizer chemicals. The slant was toward improvement. A major producer of anhydrous ammonia has advanced the price $3 per ton covering deliveries over the last quarter. Shipments of ammonium nitrate and ammonium sulfate remained along seasonal lines and the same could be said of superphosphate. Sales of nitrogen solutions during September were described as satisfactory.

Consumption of nitrogen, potash, and lime in Western Germany reached an alltime high in 1953-54, according to preliminary sales reports, the Department of Commerce states. Sales of phosphates in the fertilizer year were exceeded only by those in the preceding year, 1952-53. Sales in 1953-54 consisted of 439,900 tons of nitrogen, 455,300 tons of phosphates, 829,800 tons of potash, and 842,600 tons of lime.

Production figures appearing below unless otherwise designated are from the Chemical Division of the Tariff Commission and the Bureau of the Census, Department of Commerce.

Price Trends

Advanced

Bone meal, domestic steamed $2 per ton.
Hoof meal, 25c. per unit of ammonia.
Sewage sludge 20c. per unit of ammonia.

Reduced

Tankage, 25c. per unit of ammonia.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Oct. 2, 1953
110.77	110.59	110.40	111.51

(*For Current Prices see page 9*)

Fertilizer Materials

Ammonia, Anhydrous — Market remained in easy supply over the turn of the month. July production showed 211,310 tons, compared with 216,786 in June and 185,515 tons in uly, 1953. Stocks at producing plants on July 31 were 64,553 tons, against 38,296 on June 30, a major producer has advanced the price to $88 per ton for deliveries over the last quarter.

Ammonium Nitrate—A lot of material has been placed in storage by producers in preparation for future requirements. July production of original solution amounted to 146,443 tons including 131,028 tons of fertilizer grade and 15,415 tons of all other grades. June production totaled 137,376 tons and in July 1953 output showed 117,946 pounds. Plant stocks on July 31 were 77,816 tons, against 34,815 on June 30.

Ammonium Sulfate—Demand seasonally fair and expected to increase while current supplies are not excessive. July production of synthetic was placed at 74,302 tons of technical, compared with 40,939 in the preceding month and 40,939 tons in July, 1953. Plant stocks on July 31 were 62,024 tons, against 32,074 on June 30. Estimated supply by D of A for 1954-55 both grades 401,000 tons, compared with 405,000 in 1953-54.

Bone Meal—Increased demand for stockfeed use has strengthened the market. Domestic steamed at the close of the week was priced higher at $62 to $65 per ton, bagged, carlots works.

Castor Pomace—Producers are still unable to offer this material in the local market. According to trade reports bids of $30 per ton have been refused. Last sales were at $27.

Fish Meal—Menhaden market position firm with production sold ahead. Weather was more favorable for fishing operations last week but production was cutback during September.

Phosphate Rock—Freight rates to Europe and other foreign ports have been advanced 20 percent and the supply of ships is still short. This condition has been reflected in smaller exports of phosphate rock. Vessels taken for transportation of grain and coal have been extensive in numbers. Shipments of rock for domestic use have not exceeded seasonal limits.

Potassium Muriate — Deliveries remained about seasonal last week with a slant toward gradual improvement. The D of A estimates the total supply for fertilizer use at 1,801,000 K_2O content for 1954-55, United States and possessions, compared with 1,675,000 tons for 1953-54.

Sewage Sludge—Priced higher at $2.95 per unit of ammonia and 50c. per unit of a-p-a bulk, carlots f.o.b. Chicago works for fertilizer use. Sales for feed use have been made at $3.25 and 50c. works, Chicago.

Sodium Nitrate—Quiet and steady with small lot sales predominating. Shipments expected to increase late in the last quarter.

Superphosphate — Domestic production of superphosphate for the month of July amounted to 129,295 short tons (100 percent a.p.a.) according to the Bureau of the Census. This figure represents a decrease of 22 percent from the revised June, 1954, output and is 17 percent less than the figure reported for the corresponding month of 1953. Shipments of all grades of superphosphate totaled 62,849 tons for July or a decrease of 15 percent from the previous month's volume and a 26 percent decrease from the figure reported for July, 1953. Stocks on hand at the end of July were 11 percent greater than those held on July 1, 1954 and 14 percent more than the quantities on hand as of July 31, 1953. These monthly figures (including percentage changes) are unadjusted for seasonal variation and number of working days. Stocks of normal on July 31 were 205,967 tons, triple 64,074 tons and wet-base 1,181 tons.

Tankage—Locally, the price was lower last week at $7.25 per unit of ammonia with demand slow. Chicago was unchanged at $8.

Los Angeles Market

Fertilizer inorganics showed slight improvement in sales volume with prices unchanged. Organic sales relatively light with small lot transactions predominating. Tankage moved at $6 per unit of ammonia early in the week but turned nominal later at $5.75. Castor pomace firm at $38 per ton with stocks short. Blood meal covered a spread from $6.25 to $7 per unit of ammonia with demand slow. Domestic fish meal firmer at $2.20 per unit of protein f.o.b. San Pedro. No offerings imported mixed meal. Canadian herring meal priced at $2.15 per unit, sacks included f.o.b. Vancouver.

Pesticides

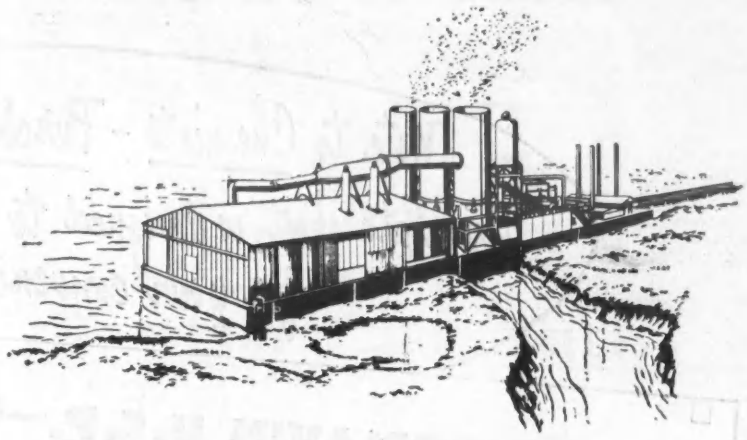
Sprinkling of bids asking for small lots of DDT wettable 75 percent powder for export were in the market last week. The bids came from the General Services Administration and will be opened later this month. Most of the attention, however, was focussed on the Turkish awards. There was not much activity in other directions and a seasonally quiet market appeared to be in store over the remainder of the year for most of the insecticide materials. Florida is expected to take on some copper sulfate and seasonal buying of paradichlorobenzene should develop late next month. There has been some good buying of warfarin for field rodent control.

BHC—July production was placed at 7,047,163 pounds, compared with 7,738,483 in June and 5,266,008 pounds in July 1953. The gamma isomer content in July was 1,136,880 pounds, against 1,280,870 in the preceding month and 763,277 pounds in July last year.

DDT—Production during July amounted to 9,448,867 pounds (partly estimated), compared with 9,401,444 in June and 5,718,932 pounds in July, 1953.

Lead Arsenate—Producers' stocks on July 31 were 1,635 tons of acid and basic, against 1,922 tons on June 30. Plant stocks of calcium arsenate on July 31 were 7,685 tons of commercial, compared with 8,724 on June 30. Production figures were not available.

For Late Market Developments, See Page 4



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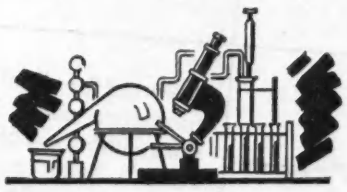

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74% Emulsifiable (8 lb./gal.)

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Butyl Ester 2,4-D Non-Emulsifiable Oil Base (6 lb./gal.)
Amine 2,4-D Concentrate (4 lb./gal.)
Amine 2,4-D Concentrate (6 lb./gal.)
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Low Volatile 245-T Emulsifiable (4 lb./gal.)
Butyl Ester 245-T Emulsifiable (4 lb./gal.)
2 & 2 2,4-D & 245-T Butyl Ester Emulsifiable
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Laboratory data sheet

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The table below summarizes for quick reference helpful facts about the 3 types of Roche riboflavin. Samples of these products and a technical brochure giving complete information are available without charge. Ask your Roche representative or the Vitamin Division.

Type & Name	Properties and Uses	Solubility	Crystal Micron Size	Melting Point	Moisture Content
RIBOFLAVIN U.S.P. Roche Regular	Density and low electrostatic properties, plus virtual non-hygroscopicity provide easy handling in preparing powdered dietary supplements, pharmaceutical tablets, soft gelatin capsules and dry enrichment premixes.	0.140-.200 gram. per liter (See Note 1)	Under 20	275°-280°C.	0.8-1.5%
RIBOFLAVIN U.S.P. Roche Solutions Type	For use in parenteral solutions which approach or slightly exceed the maximum solubility of B_2. Less likely to crystallize out.	0.120 gram per liter (See Note 1)	Under 20	285°-290°C.	0.2-1.5%
RIBOFLAVIN-5'-Phosphate Sodium-Roche Theoretical B_2 content: 73% Roche product: 70-73%	Preferred for all solutions. Solubility properties allow high concentrations without use of solubilizers (See Note 2). Better taste; no bitter aftertaste as in riboflavin. Specially valuable for highly concentrated oral and parenteral multi-vitamin solutions (with or without ascorbic acid), elixirs, syrups, water-dispersible multivitamin formulations in gelatin capsules, tablets, lozenges.	Depends on pH (See Note 2)	Very fine crystal	Decomposes above 200°	Small percentage of water of crystallization

Note 1 In water at room temperature after shaking with excess for 24 hours.

Note 2 Solubility in water varies with pH as shown in table at right:

pH	Solubility
3.8	43 mg. per cc.
5.6	68 " " "
7.0	112 " " "

Packaging: In Polyethylene bags. One-kilo tamperpruf metal containers. Larger packings in fibre drums. Small quantities in amber screw cap glass bottles.

Source: Vitamin Division

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Drugs, Fine Chemicals, Botanicals

The market in drugs and fine chemicals continued to gain momentum last week as recent price advances held and buying for fall consumption was stepped up. Summer's slow pace is being supplanted with fall's seasonal impetus in sales. And from now until the year's end, overall demand for drugs was expected to be heavy. There continued to be a trace of reluctance in consumers to buy more than that which is immediately required for manufacturing operations. The recent advances in caffeine, theobromine and the mercurials, however, has served to bolster the market and it appeared that the price outlook for the coming quarter was to be one of general stability. Caffeine prices continued firm last week, following the advances some weeks ago. Producers were confidently anticipating a good fourth quarter, business wise. Seasonal increase in caffeine consumption are customary since a substantial quantity goes into various cold remedies.

The tartrates were moving at good levels, according to trade reports heard recently. The decline in imports of tartaric acid and cream of tartar has had a salubrious effect upon domestic sales. Earlier this year, lower priced imports of the acid and its potassium salt were causing a good deal of concern to domestic tartrate producers who were forced to shade prices in order to compete with the imported material. This is no longer the case however, since imports have dwindled appreciably as a result of Europe's demand for tartrates and willingness to pay prices on a par with those paid in this country. Offerings of argols, the raw material used in the manufacture of tartrates, have been high priced, to date, and it appeared almost a certainty that tartrate prices would hold steady for the balance of this year, if they do not increase.

Close attention was being given to the spiraling quicksilver market where prices have advanced to fantastically high levels in the past few weeks. Manufacturers of mercurials may be forced once again to raise derivative prices in order to cover higher raw material replacement costs, it was said. As of late last week no moves were noted in that direction, however, but some trade observers thought that another price rise was imminent in view of the quicksilver price situation.

Caffeine—The market continued firm following the recent price advance. Supplies were ample for current inquiry and expected to continue adequate to meet consumer requirements in the immediate future. The relative lack of offerings of caffeine from Europe has done much to restore the strength of the domestic market, it was noted. The recent increase in price on domestic caffeine was expected to hold, it was said. Consumption of caffeine has been good and a continuation of this situation was anticipated, since the pharmaceutical industry uses considerable caffeine in cold and cough remedies, the season for which is rapidly approaching.

Chlorophyll — Demand for chlorophyll was reported to be on fair levels, on the whole. The bulk of chlorophyll used continues to go into toothpaste, chewing gum and dog food. These outlets account for the bulk of chlorophyll used today. Since chlorophyll hit the top of its popularity peak in 1952, countless products formerly incorporating chlorophyll have fallen by the wayside. There have been reports, however, that chlorophyll will find increased use in medical applications. Research along these lines has been steadily progressing and new uses for chlorophyll may appear in the not too distant future, it was said.

Cream of Tartar—Demand for cream of tartar was reported to be moving at good levels. The coming holiday season was expected to see a seasonal pickup in addition to normal consumption. Supplies were said to be ample for current requirements, but the overall supply situation was not as loose as it had been earlier this year. One most important factor to be considered is the decline in the importation of cream of tartar. Europe has had less to offer due to heavy takings by the Iron Curtain countries and also other European countries. Consequently, domestic prices have firmed as competition from the lower priced imports diminished. Current prices on domestic cream of tartar (potassium bitartrate) were 32c. in drum carlots with 5,000-pound lots, 1 shipment, at 32½c. per pound.

Price Trends

Advanced
None

Reduced
None

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	Oct. 2, 1953
67.79	67.79	68.81	73.33

(*For Current Prices see page 9*)

Menthol—Demand for menthol remained about unchanged from that during the preceding week. Supplies of natural, Brazilian menthol were reported to be ample for current inquiry, although the overall supply picture was not too good in view of the short production this year. Increased consumption of menthol by the drug industry was anticipated during the coming cold weather months. Menthol is a basic ingredient in many cold preparations, it was noted.

Current prices on Brazilian menthol ranged from $8.65 to $8.75 per pound. Limited quantities of Japanese menthol were available at high price levels.

Mercurials — Mercury salts continued unchanged, pricewise, last week. Since the increase in mercurials some weeks ago, the price of quicksliver has soared to $325 per flask, an astronomical level. It was feared that producers would be forced, in the near future, to again raise mercury salt prices to cover the increased cost of mercury, the basic raw material from which the salts derive.

With the government guarantee of a minimum of $225 per flask to be paid to domestic producers of mercury during the next three years, the overall outlook for mercurial prices is that they will stay high due to the high raw material costs. Labor costs of mercury salt manufacturers remain high and may conceivably go higher, it was said, due to the toxic nature of manufacturing processes.

Molasses—Prices for feed molasses were steady and unchanged at all points during the week ending September 28, 1954. Beet molasses prices for Chicago are again being quoted. The price at that point was $29 per ton. The Denver price for beet molasses continued at $33 per ton. The Gulf cane blackstrap market was unchanged from last week with New Orleans mostly 10½c. per gallon. Demand at that terminal was moderate to good, and at most other points, generally moderate. Market conditions for citrus and hydrol molasses remain unchanged with citrus molasses prices at $10 to $15 per ton, f.o.b. Florida mills. The colony of St. Lucia in the Caribbean area expects to have about 4,000 fifty-gallon drums of cane blackstrap available for export in 1955, according to Foreign Service reports. This molasses is offered at 5.9c. per gallon, fo.b. Castries (St. Lucia) in steel drums to be supplied by purchasers. The reports further indicate a serious consideration by the Cubans to produce additional quantities of hi-test molasses later this year, but prior to the start of the 1955 sugar crop. Slightly over 131,000,000 gallons of hi-test molasses was produced in Cuba earier this year.

Silver Nitrate — Production of silver nitrate 100 percent Ag NO_3) totaled 4,204,000 ounces during July this year compared to 4,909,000 ounces produced in June and 3,515,000 ounces turned out during July, 1953. Stocks at producing plants amounted to 3,388,000 ounces on July 31, 1954, compared to 3,460,000 ounces on hand as of June 30, 1954.

Tartaric Acid — Demand for tartaric acid was reported to be moving at generally satisfactory levels. Domestic producers, in general, appeared to be having less competition from lower priced imported tartaric. Heavy buying by Iron Curtain countries and also by other countries in Europe has cut the flow of imports to this country. Stocks of imported tartaric acid were reportedly lower than formerly and domestic producers have been enjoying a period of lessened price competition with the imported material. Supplies of the acid appeared to be ample for current needs but not as plentiful

For Late Market Developments, See Page 4

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RUTIN
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SODIUM PAS
SULFANILAMIDE
SULFATHIAZOLE
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THEOPHYLLINE
VITAMINS
ALKALOIDS
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• Ephedrine and salts
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as heretofore. The high prices asked abroad for argols, the basic raw material used in tartrates manufacture has resulted in a slackening of buying by manufacturers in this country. Negotiations have been under way for some time to buy argols at prices lower than European producers ask. There has not been too much success in this direction, however, according to report received here.

The current price on imported tartaric acid was 34c. to 35c. per pound, duty paid, depending upon quantity and seller. Domestic price schedules were uniformly held at 37c. for carlots, 37½c. in 10,000 pound lots, 1 shipment, and 38c., smaller lots.

Theobromine — Demand continued at steady levels last week with prices holding firmly. Supplies were ample for immediate requirements and expected to continue adequate barring any sudden appreciable increase in consumption from any source not presently known.

Botanicals

Seasonal pickup in demand for a host of cold weather items was noted to be increasing, according to trade observers. Fall requirements of manufacturing consumers should boost buying activity to high levels during this month, it was said. Botanical drug consumers cannot afford to delay any longer in replenishing depleted stocks and the supply situation in several items was tight with prospects of growing worse.

Lobelia herb remained virtually nominal in view of the short crop this year. The few lots in dealers hands were going to fulfill contract purchases. Shippers at origin were reportedly holding back material in anticipation of further rises in price. Small lots of cochineal have recently become available although the overall supply situation tended toward tightness in some directions.

Shipping prices on papain continued to move higher and sources in the trade report that although spot prices remain virtually unchanged, that replacement costs were up as much as 40 cents per pound higher than the existing market.

Cochineal—Some small lots of cochineal, USP, were reportedly offered for spot sale last week at $1.10 per pound. Supplies of this item were said to be short with recent arrivals easing the situation to some degree.

Nux Vomica—Demand was quiet, on the whole. Supplies were ample to meet current requirements and expected to continue in the immediate future. Prices ranged from 10c. to 12c. per pound, in bales and from 15c. to 17c. for the powdered material.

Papain—Shipping prices on papain were reported to be moving upward in recent weeks. On the whole, this trend has not been reflected on the spot market since demand for papain continues dull. Any appreciable increase in demand could be expected to push up prices here, however, it was said. The quality of papain coming into this country continued to be diverse in the extreme, reports indicate, with prices covering a wide range, as a result. Current prices on papain ranged from $4 to $4.50 for the African with Ceylon quality at $3 to $3.50 per pound.

Quince Seed—Replacement prices on quince seed continued high, according to reports from origin. The overall politico-military situation in the Middle East has interferred to some extent with usual haresting of the seed, it was noted. Quince seed offered from India and Africa was reported to be of a somewhat lower quality that that from the Middle East and hence, less desirable to consumers.

Sarsaparilla Root—There continues to be virtually no sarsaparilla root to be had. Both Honduran and Mexican varieties were unavailable although there were reportedly some small lots of Jamaican root in the market. Prices on this latter material were negotiated on an individual lot basis, it was said, and consequently, there appeared to be no clear cut trend, pricewise.

White Pine Bark—Demand for this botanical drug has assumed a seasonal pace, according to dealers. Buyers have been wont to proceed more cautiously than in recent years but it was expected that anticipated cold weather would give a substantial boost to consumption of cold remedies, in which white pine bark is an integral ingredient. Current spot prices ranged from 18c. to 19c. per pound.

Sharples Post to Sidoroff During Absence of Lawson

Sharples Chemicals Inc., Philadelphia, has announced that Eugene N. Sidoroff, chemical products manager, will direct company sales for three months during the absence of George R. Lawson, vice-president in charge of sales. Mr. Lawson will participate in the advanced management program of the Harvard Graduate School of Business Administration (OPD, 8/2/54).

Energy Supplies Committee Task Force Appoints Three

Appointment of three members to the task force of the Cabinet Committee on Energy Supplies and Resources Policy which was recently formed by President Eisenhower, was announced last week by Office of Defense Mobilization Director Arthur S. Flemming, chairman of the committee.

James F. Brownlee, of J. H. Whitney & Co., New York, was named chairman of the task force; J. Edward Warren, former deputy petroleum administrator, was placed in charge of the oil and gas studies, and Charles J. Potter, of Rochester & Pittsburgh Coal Company, Indiana, Pa., was assigned responsibility for coal aspects of the task force study.

Flaxseed Up for Bid Sale By Agriculture Department

An offering of 550,000 bushels of 1953 crop flaxseed for export sale on a competitive bid basis was made last week by the Department of Agriculture. The offer is in line with previous announcements that flaxseed would be made available for export sale as quantities became available.

The flaxseed now offered consists of 350,000 bushels stored in the Duluth, Minn., area and 200,000 bushels stored in the Minneapolis, Minn., area. Offers will be considered basis US grade No. 1 flaxseed, f.o.b. vessel, Duluth, or f.o.b. cars, Minneapolis. Offers will be received by the Minneapolis commodity office until 2 p.m., CST, October 6, for acceptance or rejection within twenty-four hours.

Trade Briefs

Pitman-Moore Company, Indianapolis, Ind., has appointed Leland W. Dyke to the firm's biological staff.

Schering Corporation, Bloomfield, N. J., has appointed John J. Hannan area field sales supervisor for the firm's international division.

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2,5-DIMETHYL HEXADIENE-1,3
2,5-DIMETHYL HEXADIENE-2,4
ETHYL-α-ALLYLACETOACETATE (Ethyl-2-Acetyl-4-Pentenoate)
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Cyanamid Research Unit Makes Three Appointments

Three appointments in American Cyanamid Company's research division have been announced by Kenneth H. Klipstein, division general manager. Dr. J. M. Salsbury has been named manager of the textile resins research section of the Bound Brook, N. J., laboratories; Dr. Charles Maresh, manager of the Bound Brook research service section, and Dr. Charles R. Witschonke has been transferred to the research division's Stamford, Conn., laboratories as technical assistant to the director of the research service department.

Dr. Salsbury joined Cyanamid in 1946 as a research chemist. In 1948 he became chemist in charge of the pre-pilot plant at the Stamford laboratories and in 1950 went with the synthetic fiber group. Early in 1954 he was appointed group leader of the textile chemicals group, a position he held until his present assignment. Dr. Maresh joined Cyanamid in 1939 as an analytical chemist-microscopist in the standards laboratory. From 1946 until the present, he had been chief microscopist.

Dr. Witschonke, who began with Cyanamid in 1945 as a research chemist, was head of the physical-chemical measurements laboratory at Bound Brook from 1951 to April, 1954, when he was appointed manager of the physical-analytical section. Prior to joining Cyanamid, he had been a research chemist at Brown University and head of the development and engineering group of the physical chemistry section of the Naval Research Laboratory in Washington, D. C.

Alginic Salts From Norway To Be Distributed by Croda

Croda, Inc., New York, has been named sales agent for the eastern United States for a number of alginates manufactured by the Norwegian firm of A. S. Protan. Croda will market sodium, ammonium, potassium, and other alginic acid salts chemically extracted from seaweed.

According to Croda, the alginates are suitable for use in the ice cream, pharmaceutical, cosmetic, textile, plastic and rubber coating, and other industries where a calcium-free hydrophilic colloid of thickening, stabilizing, gel or film forming properties is required.

Sharples Transfers J. W. Conyers

John W. Conyers, jr., formerly sales analyst for Sharples Chemicals, Inc., Philadelphia, has been transferred from the sales department to the market development department, the company has announced. Mr. Conyers' activities will include market research activities, introduction of new products, and field work incident to market development.

Glycineamide Hydrochloride Offered

Jasonols Chemical Corporation, Brooklyn, N. Y., has announced the availability of glycine amide hydrochloride. The corporation has also announced the availability of glycineamide for those industries which require the free amide.

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Sharp & Dohme Announces Retirement of Dr. Pittenger

The retirement of Dr. Paul S. Pittenger, vice-president since 1930 and director of quality control, has been announced by Sharp & Dohme, Philadelphia, a division of Merck & Co.

Dr. Pittenger joined H. K. Mulford Company as director of pharmacodynamic research in 1910, and held that position until 1925. Two years later he was appointed director of pharmacologic research at Sharp & Dohme, which named him assistant general superintendent in 1928 and assistant to the president in 1929. Dr. Pittenger became vice-president the year following the merger of Sharp & Dohme and H. K. Mulford in 1929.

In addition to his positions in industry, Dr. Pittenger for twenty years served as demonstrator, lecturer and instructor in bio-assaying at the Medico-Chirugical College of Philadelphia, the Philadelphia College of Pharmacy and Science and Temple University College of Pharmacy. His course in bio-assaying was the first to be offered in the United States.

DuPont Merges 2 Groups In Photo Products Dept.

E. I. duPont de Nemours & Co., Wilmington, Del., has merged the trade and industrial product groups of its photo products department sales organization and has named John L. Morgan, jr., trade product manager, as manager of the combined group. Carl E. Ray, recently named assistant to Mr. Morgan, has become assistant manager. Frank H. Lines, formerly industrial product manager, has taken over the newly-created post of sales supervisor in the Philadelphia district.

Mr. Morgan began his photographic career in 1942 as a research chemist for Defender Photo Supply Company, Rochester, N. Y., which was later acquired by duPont. From 1951 to 1953 he was a technical investigator in the research division and then was transferred to the sales division in Wilmington as trade product manager.

Mr. Ray joined duPont in 1941 and was associated with the military explosives program carried on by duPont for the government during World War II. In 1945 he was transferred to the photo products department. Mr. Lines started with Defender in 1933 in its coating department. He entered sales work in 1950 as trade product manager and was named manager of industrial products in 1953.

Nitchie Opens N.Y. Office As Engineering Consultant

Edward B. Nitchie, engineering consultant, has opened an office at 475 Fifth avenue, New York, to provide consulting services in the fields of production management and industrial engineering for the food, drug, chemical and cosmetic industries. In addition to consulting work in these fields, with office locations in New Jersey and Ohio, Mr. Nitchie's background includes managerial positions with some of the leading companies in these industries. These have been director of manufacturing, manager of operations, works manager and similar positions with American Cyanamid Company, Durkee Famous Foods, Glidden Company, Basic Refractories, Inc., Cutter Laboratories and Procter & Gamble Company. An office also will be maintained in Summit, N. J.

Crystalline Ammonium Thiocyanate Production Is Under Way at Halby

Halby Chemical Company, Wilmington, Del., has announced that it has started production of crystalline ammonium thiocyanate. Previously thiocyanate sales were limited to the few large users who could purchase in tank car quantities, the company pointed out.

A plant was built in 1950 for the production of ammonium thioglycolate, the active ingredient in cold hair-waving lotion, including facilities for sodium hydrosulfide, one of the raw materials. The operation was handled by a separate company, Halby Products Company. This company added facilities for recovering distilled thioglycolic acid in 1953.

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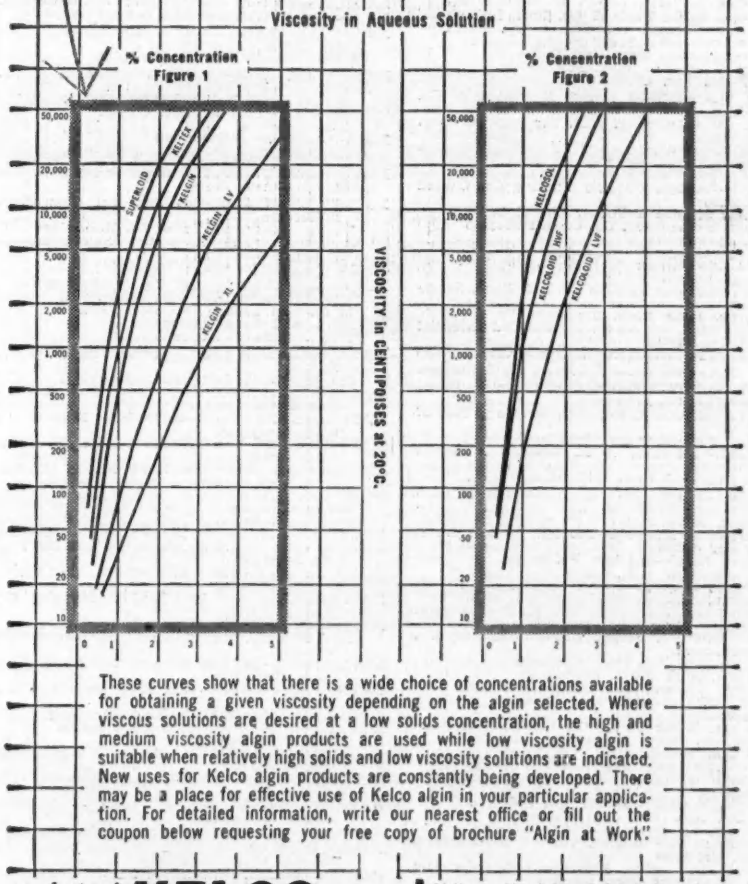

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113 cans, Rotterdam
ANNATTO SEED—40 bgs, Jacob Szroit, Ciudad Trujillo
63 bgs, Callao
ANTIMONY—40 cks, Watson Geach, Liverpool
OXIDE—500 bgs, National Lead Co, Liverpool
REGULUS—488 cs, Split
SULFIDE—100 dms, C Gitlan, Antwerp
ARABIC GUM—402 bgs, Irving Trust Co, Port Sudan
134 bgs, Parke Davis & Co, Port Sudan
303 bgs, National City Bank, Port Sudan
703 bgs, Guaranty Trust Co, Port Sudan
100 bgs, Brown Bros, Port Sudan
200 bgs, Hanover Bank, Port Sudan
ARGOLS—150 bgs, Catania
ARNICA FLOWERS—8 bls, S B Penick & Co, Rijeka
BARIUM CHLORATE—46 dms, Tar Residuals Inc, Rotterdam
SULFATE—50 dms, Picker X-Ray Corp, London
BAY OIL—2 dms, Magnus, Mabee & Reynard, Dominica
BEESWAX—34 bgs, Curacao Trading Co, Ciudad Trujillo
30 bgs, Schutte & Focke, Ciudad Trujillo
21 bgs, Irving Trust Co, Ciudad Trujillo
125 bgs, Piraeus
110 bgs, Tampico
3 bls, Cap Haitien
20 bgs, Havana
BENZOIN GUM—42 bdls, Lo Curto & Funk, Singapore
46 bdls, Meer Corp, Singapore
BERGAMOT OIL—40 cs, Citrus & Allied Essential Oil Co, Naples
BISMUTH—51 ctns, Cerro de Pasco Corp, Callao
BLANC FIXE—800 bgs, C J Osborn Co, Rotterdam
BLEACHING POWDER—610 dms, Chemical Manufacturing Co, Liverpool
BOIS DE ROSE OIL—1 dm, Givaudan Corp, Port of Spain
1 dm, Roubechez Inc, Port of Spain
BONEMEAL—109 bgs, A M Goldstein, Buenos Aires
BUTANETRIOL—7 dms, Rotterdam
CADMIUM—10 bxs, Cerro de Paosco Corp, Callao
CALCIUM LACTATE—45 kgs, Gallard Schlesinger, Rotterdam
PHOSPHATE, DIBASIC—360 bgs, Wessel Duval & Co, Antwerp
CARAWAY SEED—350 bgs, Rotterdam
CASEIN—718 bgs, A J Mills & Co, Auckland
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200 bgs, Bank of Manhattan Co, Buenos Aires
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CASSIA—1,658 bls, Borneo Sumatra Trading Co, Amsterdam
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123 bls, Fuerst Bros, London
66 bgs, Kellys America Ltd, Hamburg
COALTAR DYES—17 cks, Hensel Bruckmann & Lorbacher, Rotterdam
14 dms, Hensel Bruckmann & Lorbacher, Rotterdam
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COCHINEAL—28 bgs, Chemical Bank, Callao
COCONUT OIL—45 dms, Procter & Gamble, Manila
430 tons, Pacific Vegetable Oil Corp, Manila
380 tons, E F Drew & Co, Manila
451 tons, E F Drews & Co, Cebu
COD OIL—150 dms, Atlas Refinery, St Johns
100 dms, Ottol Oil Co, St Johns
400 dms, Nopco Chemical Co, St Johns
200 dms, Scandinavian Oil Co, St Johns
LIVER OIL—100 dms, Scandinavian Oil Co Reykjavik
168 tons, Dyson Shipping Co, Reykjavik
323 dms, Dyson Shipping Co, Reykjavik
200 dms, Arista Oil Products Co, Reykjavik
135 dms, Peder Devold Oil Co, Bergen
CORIANDER SEED—731 bgs, Karl H Landes & E Balint, Rijeka
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CUBE POWDER—280 bgs, Callao
CUMIN SEED—143 bgs, Istanbul
405 bgs, Rotterdam
CUTTLEFISH BONE—30 cs, Hinton & Co, Bordeaux
65 cs, Bordeaux
DAMMAR GUM—105 bgs, O G Innes Corp, Singapore
DEXTRIN—100 bgs, Stein Hall & Co, Rotterdam
250 bgs, Rotterdam
50 bgs, United Paste & Glue Co, Rotterdam
100 bgs, Morningstar Nicol, Rotterdam
DINITROPHENOL—51 cks, Haras Co, Liverpool
DUBOISIA LEAVES—9 bls, Inland Alkaloid Co, Brisbane
ETHYL CRESOL—13 dms, General Aniline & Film Corp, Rotterdam
EUCALYPTUS OIL—21 dms, Commercial Banking Co, Sydney, Melbourne
19 dms, National Bank of Asia, Melbourne
FERRIC AMMONIUM SULFATE—16 dms, Philipp Bros Chemicals, London
FISHLIVER OIL—30 dms, Collett Week Nibecker, Valparaiso
1 dm, Yokohama
FUEL OIL—106,318 bbls, Paragon Oil Co, Tampico
117,395 bbls, Metropolitan Petroleum Corp, Punta Cardon
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50,000 bbls, Esso Standard Oil Co, Aruba
174,816 bbls, Esso Export Corp, Aruba
GALL—2 cks, Wilson & Co, Timaru
7 cks, Tupman Thurlow, Napier
OX—1 dm, International Packers Ltd, Melbourne
2 dms, International Packers Ltd, Brisbane
19 bbls, Brazilian Minerals & Timbers Corp, Santos
SHEEP—2 cks, E S & A Bank, Melbourne
2 cks, Sydney
GELATIN—346 bgs, Transatlantic Animal By Products Corp, Rotterdam
100 bgs, T M Duche & Sons, Rotterdam
40 dms, D H Burdett, London
200 bgs, T M Duche & Sons, Havre
441 bgs, Morningstar Nicol, Hamburg
GLUE, PEARL—441 bgs, Transatlantic Animal By Products Corp, Rotterdam
STOCK—402 bdls, Herman Hollander, Barranquilla
32 bdls, H Remis, Barranquilla
10 bdls, John Gorvers, Barranquilla
GRAPHITE—1,150 bgs, C Pettinos, Colombo
GYPSUM—10,339 tons, U S Gypsum Co, Hantsport
17,453 tons, National Gypsum Co, Dingwall
2,100 tons, National Gypsum Co, Walton
200 bgs, A Gusmer, London
245 bgs, Whittaker Clark & Daniels, Liverpool
HALIBUTLIVER OIL—2 dms, Whitmoyer Lab, Halifax
HENNA LEAVES—12 bls, Irving Trust Co, Port Sudan
HYDROXYCITRONELLAL—4 cs, Lo Curto & Funk Havre
INDIGO—192 dms, Rotterdam
IODINE, CRUDE—327 kgs, Antony Gibbs & Co, Tocopilla
20 kgs, N Atlantic Fertilizer & Chemical Co, Yokohama
ISONICOTINIC ACID HYDRAZIDE—2 dms, Oxford Chemical Corp, Hamburg
KOLA NUTS—155 bgs, J A Manton Co, Kingston
100 bgs, D Steengrafe & Co, Kingston
LACTOSE—100 dms, Merit Shipping Co, Rotterdam
200 dms, Chas L Huisking & Co, Liverpool
LEMON OIL—3 dms, Citrus & Allied Essential Oil Co, Santiago
6 dms, George Uhe Co, Tampico
LEMONGRASS OIL—21 dms, Chemical Bank, Cochin
12 dms, Chase National Bank, Cochin
9 dms, Lo Curto & Funk, Cochin
35 dms, Cochin
LIME OIL—4 dms, Vera Cruz
LITHOPONE—2 bgs, C J Osborn Co, Rotterdam
LIVERMEAL—560 bgs, H J Baker & Bros, Timaru
212 bgs, Buenos Aires
LOCUST BEAN GUM—100 bgs, Uni Gum Corp, Rotterdam
200 bgs, Guaranty Trust Co, Rotterdam
5 dms, Guaranty Trust Co, Rotterdam
100 bgs, Rotterdam
10 dms, Rotterdam
MACE—35 cs, Van Loan & Co, Amsterdam
7 cs, Kellys America Ltd, Amsterdam
14 cs, Van Loan & Co, Rotterdam
16 cs, A G Dunn, Rotterdam
7 cs, H J Spitz, Rotterdam
MAGNESITE—2,820 bgs, Golwynne Chemical Corp, Madras
610 bgs, H A Gogarty, Madras
MAGNESIUM CARBONATE—75 cs, Chas L Huisking & Co, Liverpool
MANGROVE EXTRACT—2,000 bgs, Saxe Cutch Corp, Singapore
MARJORAM—200 bgs, Transamericana Mercantile Corp, Arica
MERCURY—25 flks, Associated Metals & Minerals Corp, Tampico
70 flks, L H Keller & Co, Tampico
200 btls, Rijeka
200 flks, Tampico
MOLASSES—570 tons, W R Grace & Co, Salaverry
6,492 tons, Instituto Cubano De Est Del Azucar, Guayabal
MUSTARD SEED—200 bgs, C Gulden, London
450 bgs, Catania
NAPHTHALENE—548 bgs, Hudson Shipping Co, Gdynia
NAPHTHOL—1 dm, C A Haynes, Rotterdam
13 dms, Hensel Bruckmann & Lorbacher, Rotterdam
b-NAPHTHOL—340 bgs, General Aniline & Film Corp, Rotterdam
NICKEL SULFATE—25 cks, A V Berner & Co, Bremen
113 bbls, Chas Page & Co, Gothenburg
NUTMEG—67 cs, Chemical Bank, Colombo
228 bgs, Rotterdam
OCOTEA CYMBARUM OIL—23 dms, Chase National Bank, Itajai
OITICICA OIL—300 tons, Brazilian Industrial Oils, Fortaleza
OXYNITROPHENYLARSENIC ACID — 10 dms, Rhodia Inc, Havre
PALM OIL—853 tons, Balfour Guthrie, Matadi
PALO SANTO OIL—17 cs, C Tennant Sons & Co, Buenos Aires
PAPAIN—68 chts, River Plate Corp, Colombo
57 hlf chts, Bank of London & S A, Colombo
280 hf chts, National City Bank, Colombo
PATCHOULI OIL—4 dms, D C Andrews, Penang
10 dms, Van Ameringen Haebler, Penang
10 dms, Dodge & Olcott, Penang
PEATMOSS—5,400 bls, Premier Peatmoss Corp, Bremen
3,300 bls, Lindfors Chemical Co, Bremen
4,950 bls, Lewis Intern Co, Bremen
4,625 bls, New Amsterdam Import Co, Bremen
500 bls, E J Lang, Hamburg
660 bls, Gelleo Inc, Bremen
2,000 bls, E J Lang, Bremen
200 bls, J E Bernard, Bremen
3,500 bls, Lion Trading Co, Bremen
555 bls, Bruco Peatmoss Corp, Bremen
PECTIN—41 kgs, Jafbro Corp, Copenhagen
PEPPER, BLACK—80 bgs, P Elbogen, Cochin
80 bgs, Wolmet Raw Products, Cochin
160 bgs, L D Seymour, Cochin
200 bgs, M Golodetz, Cochin
80 bgs, George Uhe Co, Cochin
80 bgs, Dalamal & Sons, Cochin
320 bgs, Internatio Rotterdam, Cochin
320 bgs, Volkart Bros, Cochin
40 bgs, G Skey, Cochin
320 bgs, A G Dunn, Cochin
200 bgs, Mincing Trading Corp, Cochin
160 bgs, Bankers Trust Co, Cochin
400 bgs, Ludwig Mueller, Cochin
80 bgs, Brown Bros, Cochin
240 bgs, Otto Gerdau, Cochin
560 bgs, R Badenhop Corp, Cochin
399 bgs, Far Eastern Commodities, Singapore
70 bgs, H Schlichting & Co, Singapore
70 bgs, Mutual Spice Co, Singapore
35 bgs, C Czarinkow, Singapore
35 bgs, D Hecht & Co, Cochin
40 bgs, C Czarinkow, Cochin
160 bgs, East Asiatic Co, Cochin
240 bgs, Virchand Panachand, Cochin
220 bgs, Vera Cruz
70 bgs, A G Dunn, Kuching
70 bgs, W R Grace & Co, Singapore
560 bgs, A G Dunn, Singapore
70 bgs, Oliver Finnie Co, Singapore
35 bgs, Joensson & Cross, Singapore
350 bgs, Internatio Rotterdam, Singapore
245 bgs, G H Winram, Singapore
420 bgs, Far Eastern Rubber Importers, Singapore
495 bgs, A C Israel, Singapore
390 bgs, Borneo Sumatra Trading Co, Singapore
240 bgs, Polak Trading Co, Cochin
270 bgs, Guaranty Trust Co, Cochin
80 bgs, P Billhardt, Cochin
120 bgs, Chemical Bank, Cochin
42 bgs, Volkart Bros, Singapore
280 bgs, Dalamal & Sons, Singapore
33 bgs, Balfour Guthrie, Singapore
33 bgs, Fuerst Bros, Singapore
140 bgs, Daarnhower & Co, Singapore
80 bgs, Becker Mayer Seed Co, Singapore
44 bgs, J Berlage, Colombo
105 bgs, Polak Trading Co, Singapore
805 bgs, R Badenhop Corp, Singapore
140 bgs, Ludwig Mueller, Singapore
35 bgs, Virchand Panachand, Singapore
1,560 bgs, Cochin
4" bgs, Rotterdam
429 bgs, Singapore
PEPPER, WHITE—260 bgs, Internatio Rotterdam, Singapore
280 bgs, A G Dunn, Singapore
70 bgs, Otto Gerdau, Singapore
70 bgs, Mutual Spice Co, Singapore
245 bgs, Joensson & Cross, Singapore
70 bgs, H Schlichting & Co, Singapore
48 bgs, Mincing Trading Corp, Pangkalpinang
260 bgs, Internatio Rotterdam, Pangkalpinang
60 bgs, A G Dunn, Pangkalpinang
PETITGRAIN OIL—11 dms, Wessel Duval & Co, Buenos Aires
12 dms, Olfactors Inc, Buenos Aires
PETROLEUM, CRUDE—169,600 bbls, Esso Standard Oil Co, Amuay Bay
225,000 bbls, Socony Vacuum Oil Co, Puerto La Cruz
PHENYL-b-NAPHTHYLAMINE—3 dms, Rotteradm
PHTHALIC ANHYDRIDE—209 bgs, Socony Vacuum Overseas Supply, Naples
PHTHALYLSULFACETAMIDE — 5 dms, N Y Quinidine & Chemical Works, London
PIMENTO LEAF OIL—4 dms, Fritzsche Bros, Kingston
POLLACKLIVER OIL—25 dms, Consumers Import Co, Yokohama
150 dms, Wilbur Ellis Co, Yokohama
151 dms, Arista Oil Products Co, Yokohama
50 dms, Interocean Chemical & Minerals Corp, Yokohama
100 dms, Yokohama
POLYVINYL CHLORIDE—4,000 bgs, Pantasote Co, Genoa
POPPYSEED—200 bgs, Biddle Purchasing Co, Rotterdam
90 bgs, Louis Furth, Rotterdam
POTASH, CAUSTIC—30 dms, Nife Inc, Gothenburg
POTASSIUM FERROCYANIDE—55 bgs, Antwerp
QUEBRACHO EXTRACT—765 bgs, River Plate Corp, Buenos Aires
2,009 bgs, International Products Corp, Buenos Aires
2,165 bgs, Tanimex Corp, Buenos Aires
RICE STARCH—200 bgs, American Key Products, Trieste
ROSEWOOD OIL—22 dms, Lo Curto & Funk, Belem Para
RUTIN—12 dms, Commercial Banking Co, Sydney, Melbourne
12 bgs, K B Rosen & Co, Sydney
17 cs, Sydney
SALICYLIC ACID—40 cks, R J Saunders, Rotterdam
SANDALWOOD—655 bgs, W J Bush & Co, Madras
SARSAPARILLA ROOT—5 bls, S B Penick & Co, Kingston
SEEDLAC—200 bgs, Gillespie-Rogers-Pyatt, Liverpool
800 bgs, Calcutta
SENNA PODS—20 bls, Prentiss Drug & Chemical Co, Tuticorin
SERPENTINA ROOT—550 bls, P H Petry, Barranquilla
SHELLAC—40 bbls, F H Paul & Stein Bros, Rotterdam
100 bgs, Calcutta
BLEACHED—10 dms, Liverpool
SODIUM AMINOSALICYLATE—80 dms, Intermaritime Forwarding Co, Havre
AZIDE—25 bbls, Lo Curto & Funk, Hamburg
BICARBONATE—800 bgs, Chemical Manufacturing Co, Liverpool
IODIDE—1 cs, Conray Products Co, London
STARCH—3,000 bgs, Alltransport Inc, Rotterdam
251 bgs, Morningstar Nicol, Rotterdam
SUGAR BEET PULP—14,170 bgs, P J Hanrahan, Rijeka
SULFUR—25 bgs, Dorf International Ltd, Gothenburg
PRECIPITATED—66 cks, P H Petry, Liverpool
TALC—625 bgs, C B Chrystal & Co, Bordeaux
726 bgs, L A Salomon & Bro, Bordeaux
TANKAGE—1,334 bgs, Tupman Thurlow, Montevideo
TANNING EXTRACT—400 bgs, River Plate Corp, Liverpool
2,883 bgs, Tanexco Inc, Fremantle
TAPIOCA FLOUR—500 bgs, Stein Hall & Co, Bangkok
TARRAGON—12 bgs, Kellys America Ltd, Hamburg
TONKA BEANS—18 cks, Royal Bank of Canada, Port of Spain
TRICHLOROETHYLENE—254 dms, Chemical Manufacturing Co, Liverpool
22 dms, Hanover Bank, Venice
TUNG OIL—315 tons, W R Grace & Co, Buenos Aires
TURMERIC—40 bgs, M J Golombeck, Kingston
UREA—706 bgs, I M Sobin & Co, Rotterdam
VALONIA CUPS—1,188 bgs, Barkey Importing Co, Izmir
VANADIUM CONCENTRATES—2,359 bgs, Vanadium Corp of America, Callao
VANILLA BEANS—5 cs, Thurston & Breidich, Dominica
3 cks, Zink & Trieste, Dominica
28 cs, Zink & Trieste, Semarang
31 cs, F Huber & Co, Papeete
21 cs, Thurston & Braidich, Papeete
19 cs, First National Boston, Papeete
VETIVER OIL—1 dm, L A Champon & Co, Port Au Prince
1 dm, Calvert Vavasseur & Co, Penang
WHITING—2,000 bgs, Antwerp
WOOL GREASE—132 dms, Olson Sales Agency, Fremantle
100 dms, Croda Inc, Liverpool
28 dms, Melbourne
ZINC CHLORIDE—42 dms, Antwerp
ZIRCON SAND—900 bgs, Berkshire Chemicals Inc, Brisbane
2,004 bgs, Tuteur & Co, Brisbane
ZIRCONIUM CARBONATE—84 bbls, Melberk Inc, Liverpool

Baltimore

ARSENIC, CRUDE—23 bbls, American Smelting & Refining Co, Tampico
CARDAMOM—5 cs, McCormick & Co, London
DAMMAR GUM—210 bgs, O G Innes Corp, Singapore
FISHMEAL—1,058 bgs, Albumina Supply Co, Mollendo
QUEBRACHO EXTRACT—2,474 bgs, River Plate Corp, Buenos Aires

Boston

BONEMEAL—1,043 bgs, Eastman Gelatine Corp, Buenos Aires
100 tons, National City Bank, Buenos Aires
COTTON LINTERS—183 bls, Bunge Corp, Callao
34 bls, Callao
GLUE—200 bgs, D C Andrews, London
LOCUST BEAN FLOUR—30 bgs, Catania
QUEBRACHO EXTRACT—1,631 bgs, Tanimex Corp, Buenos Aires
1,381 bgs, River Plate Corp, Buenos Aires

Los Angeles

AGAR—53 cs, Moorhead Co, Yokohama
COCONUT OILCAKE—3,000 bgs, Internatio Rotterdam Inc, Cebu
COPRA—1,100 tons, American Trust Co, Cebu
750 long tons, Cebu
500 long tons, American Trust Co, Legaspi
750 long tons, American Trust Co, Tabaco
500 long tons, Procter & Gamble Co, Cagayan
500 long tons, Siain
CAKE—5,000 bgs, Wilbur Ellis Co, Manila
SODIUM GLUTAMATE, MONO—50 dms, 125 cs, Universal Sales Co, Yokohama
PETROLEUM, CRUDE—125,251 bbls, Douglas Oil Co of Calif, Lobitos
22,113 tons, The Texas Co, Sungai Pakning
SESAME OIL—90 pkgs, Kwong On Lung Co, Yokohoma
UREA—2,000 bgs, Nylos Trading Corp, Genoa

Norfolk

FISHMEAL—4,000 bgs, Woodward & Dickerson, Copenhagen

Philadelphia

ALUMINUM SILICATE—9,384 bgs, Socony Vacuum Oil Co, Bremen
AMMONIUM PERSULFATE—10 dms, Rohm & Haas, Rotterdam
ANTIMONY REGULUS—37 cks, Antwerp
ASBESTOS FIBER—800 bgs, Phila National Bank, Lourenco Marques
2,640 bgs, Keasby & Mattison, Lourenco Marques
BONEMEAL—660 tons, Credit Suisse, Rosario
335 tons, Credit Suisse, Buenos Aires
4,503 bgs, Ralli Bros, Calcutta
CALCIUM PHOSPHATE, DIBASIC—1,844 bgs, National City Bank, Antwerp
CLAY, CHINA—7,763 tons, Fowey
CRESYLIC ACID—100 dms, Glasgow
EARTH COLORS—450 bgs, Vandergrift Co, Rotterdam
611 bgs, C K Williams Co, Larnaca
FISH OIL—100 dms, Simo Chemical Co, Yokohama
75 dms, Albumina Supply Co, Yokohama
HORNMEAL—524 bgs, Tupman Thurlow, Buenos Aires
MOLASSES—1,881,161 gals, Antilla
NAPHTHALENE—548 bgs, Chemical Bank, Gdynia
3,889 bgs, Rotterdam
PETROLEUM, CRUDE—200,380 bbls, The Texas Co, Sidon
117,419 bbls, The Texas Co, Las Piedras
233,232 bbls, The Texas Co, Covenas
123,325 bbls, Socony Vacuum Oil Co, Puerto La Cruz
360,131 bbls, Socony Vacuum Oil Co, Mena Al Ahmadi
124,484 bbls, Socony Vacuum Oil Co, Covenas
452,822 bbls, Atlantic Refining Co, Amuay Bay
119,379 bbls, Atlantic Refining Co, Pamatacual
570,894 bbls, Gulf Oil Corp, Mena Al Ahmadi
116,965 bbls, Gulf Oil Corp, Puerto La Cruz
QUEBRACHO EXTRACT—1,009 bgs, Manufacturers Trust Co, Buenos Aires
812 bgs, First National Boston, Buenos Aires
POWDER—320 bgs, Glasgow
RAPESEED—1,000 bgs, R T French, Rotterdam
3,200 bgs, Catz American Co, Hamburg
SHELLAC—100 bgs, Dings & Schuster, Bremen
100 bgs, Colony Import Export Corp, Calcutta
50 bgs, Flora Lac Co, Calcutta
80 bgs, Wm Zinsser & Co, Calcutta
WATTLE BARK—500 bls, Mossel Bay
ZIRCON SAND—9,500 bgs, Brisbane

San Francisco

COPRA—500 tons, Procter & Gamble, Cebu
500 tons, American Trust Co, Tabaco
500 tons, American Trust Co, Siain
666 tons, Procter & Gamble, Cagayande Oro
MEAL—2,000 bgs, Pacific Vegetable Oil Corp, Manila
COTTON LINTERS—100 bls, Grace & Co, San Jose
CREOSOTE—1,935 tons, Bernuth Lembcke Co, Immingham
DAMMAR GUM—14 bgs, D Hect & Co, Singapore
[illegible] dms, F P Dow Co, Liverpool
LOCUST BEAN GUM—100 bgs, Stein Hall & Co, Barcelona
MACE—13 cs, Catz American Co, Singapore
OREGANO—127 bgs, Beirut
PEPPER, BLACK—105 bgs, G H Winram, Singapore
40 bgs, Borneo Sumatra Trading Co, Singapore
70 bgs, D Hecht & Co, Singapore
WHITE—40 bgs, Internatio Rotterdam, Singapore
PETROLEUM, CRUDE—182,893 bbls, Tide Water Associated Oil Co, Mena Abdulla
SERPENTINA ROOT—52 bgs, J Kellys Ltd, Bombay
SHELLAC—25 bgs, Calcutta
TAPIOCA FLOUR—800 bgs, Internatio Rotterdam, Bangkok
2,000 bgs, Stein Hall & Co, Singapore
UREA—500 bgs, Genoa

Cyanamid Coaltar Section Set Up in Purchasing Dept.

American Cyanamid Company, New York, has announced the establishment of a coaltar chemical section within the general purchasing department. Eugene C. Medcalf has been appointed manager of this section which will operate at the Bound Brook, N. J., plant.

The new organization will combine the responsibilities previously assigned to the coaltar chemicals department at Bound Brook and company purchasing units. This will allow greater latitude in company purchasing operations and will provide complete coordination of purchase activities in this field. The section will also be responsible for the disposition of byproducts resulting from the processing of crude coaltars and light oils, Cyanamid announced.

Mr. Medcalf has been affiliated with the company as a chemist since 1933. In 1950 he became vice-chairman of the chemicals department technical committees and in 1952 was appointed head of the coaltar chemicals department.

Peanut Acreage, Marketing Figures Given by USDA

A national allotment of 1,610,000 acres of 1955 crop peanuts for picking and threshing, and a marketing quota of 740,000 tons were announced last week by the Department of Agriculture. As was the case for this year's crop, both the marketing quota and the national acreage allotment for the 1955 crop are at the minimum levels permitted by law. The national acreage allotment is the same as for the 1954 crop, but the marketing quota is 67,000 tons greater than the 1954 quota because of the use of a higher "normal yield" figure.

Hilton-Davis Chemical Picks Director of Analytical Labs

Robert K. Johnson has been promoted to the position of director of analytical laboratories at Hilton-Davis Chemical Company, Cincinnati, Ohio, a division of Sterling Drug, Inc. Mr. Johnson was previously senior analytical chemist for the concern. As director of the analytical laboratories, he will be in charge of all chemical analysis work involved in the research and development of dyestuffs, pigments, intermediates and certified colors. He will also supervise the quality control program for Hilton Davis' special laboratories serving the printing ink, protective coatings and textile industries.

Fair Trade Bureau Maps Campaign for Its 6th Year

A nationwide campaign stressing the vital economic and social role of established retailers in the United States will be a highlight of the program planned by the Bureau of Education on Fair Trade during the coming year, according to Dr. John W. Dargavel, bureau chairman, and executive secretary of the National Association of Retail Druggusts.

The bureau's campaign is designed to "help combat widespread price-chiseling and unfair competition by building awareness of the indispensable contributions of the established retailer to the well-being of US communities and to effective mass distribution based on methods of fair competition," Dr. Dargavel said. Local programs of this type are already under way, he added, citing steps to combat discount house selling which are now being taken in California by the Chambers of Commerce of San Bernardino and Culver City.

The bureau began its sixth year of operation last month, following a unanimous vote by its steering committee to continue the non-profit organization's program in behalf of the fair trade laws. The bureau's budget for 1954-55 will be $120,000, as in each of the previous five years, Dr. Dargavel said, and will be raised from all segments of the drug industry.

Perkin-Elmer Sets Up Unit

Perkin-Elmer Corporation, Norwalk, Conn., has formed a manufacturing division devoted to the development, manufacture and sale of the "Vernistat," a new type of precision variable-ration transformer. Eugene W. Dunstan, formerly Perkin-Elmer's director of purchasing, has been named to head the new division.

Trade Briefs

Eli Lilly International Corporation, Indianapolis, Ind., has named Fred R. Wold general auditor.

Eli Lilly & Co., Indianapolis, Inc., has made research grants to St. Luke's hospital, New York, and to eight universities.

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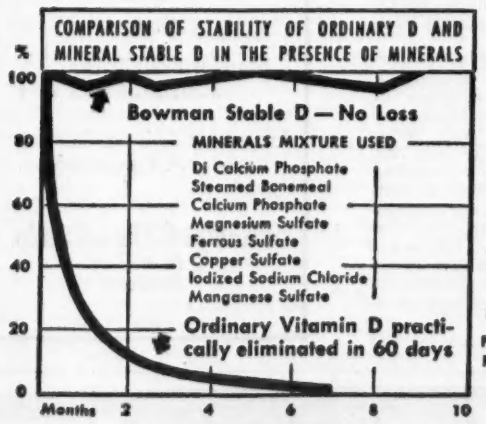

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NOTICE RE NITROFURAZONE

Nitrofurazone (5-nitro-2-furaldehyde semicarbazone) has been offered for sale in this country recently by a concern located in Holland. Such offers, which have come to our attention, have included representations that the nitrofurazone so offered for sale will not infringe upon any United States patent. *Those representations are false.*

Nitrofurazone is a new compound first produced in the research laboratories of The Norwich Pharmacal Company. It is specifically protected by U.S. patent No. 2,416,234 owned by The Norwich Pharmacal Company.

The use or sale in this country of nitrofurazone, either alone or in a combination with other substances, without the consent of The Norwich Pharmacal Company will be deemed an infringement upon that patent and infringers thereof will be proceeded against as such.

THE NORWICH PHARMACAL COMPANY
Norwich, New York

For the Bookshelf

PROCEEDINGS OF THE 1954 SOUTHERN INDUSTRIAL WASTES CONFERENCE. Paper; vi +205 pages, 8½x11 in. (mimeographed). Washington; Manufacturing Chemists Association. $2.50.

Dealing with industrial wastes, gaseous, liquid, and solid, has become a matter of broad and deep public concern. Industry is steadily increasing its interest in the problems involved and its endeavor to solve them with satisfaction in all their infringements. The interest from both angles was quite evident at the conference covered in these proceedings. That gathering was sponsored by the Southern Association of Science and Industry, the Texas Chemical Council, and the Manufacturing Chemists Association. It was attended by about 300 persons.

The value of this report of what was done at that conference rests chiefly on the practical approach that was made on the matters discussed. Those covered both air and water pollution, and they covered both with an understanding based on experience and with a purpose of general welfare. The hope is expressed in the preface that the report will contribute toward solving problems met in many populous communities and will demonstrate that industry recognizes and accepts its responsibilities attending those problems. There can be no question of the value of these preceedings in both respects. What they can instill should get promotive attention everywhere.

THE SMOG PROBLEM OF LOS ANGELES COUNTY— a Report by Stanford Research Institute on the Nature and Causes of Smog. Paper; 134 pages, 8½x11 inches. Distributed in the public interest by the Western Oil and Gas Association.

The Los Angeles smog problem has come to a classic place near that of the long historical fogs of London. It has carried blame, the deserts in which are quite controversial, into areas of potential cause never entered in the older British field of discussion. One of those areas comprised the petroleum refining industry—the survey found the contributions of motor car operations to be many times that of refining. This is a well done, well illustrated publication on a subject which is becoming more and and more a topic of talk and work. It is helpful in a field where help is increasingly needed. It presents the general picture, and it tells the scientific story, covering a multitude of aspects, from atmospheric conditions to crop damage. It contains one short diversion—"What More Do We Need to Know"—which can be helpful to hundreds of communities, a larger number of industrial enterprises, and thousands of persons concerned with matters of public health and safety.

The Stanford study was supported by the Western Oil and Gas Association. Copies of the report have been available at request from the association at 510 West Sixth street, Los Angeles 14, Calif.

EIGHTEENTH ANNUAL MEETING CONFERENCES, 1953, OF THE INDUSTRIAL HYGIENE FOUNDATION OF AMERICA. Paper: 183 pages, 6x9 inches. Pittsburgh Industrial Hygiene Foundation of America, Mellon Institute, $3.00.

This book reports a series of conferences. Medical conferences considered such subjects as the proper scope of medical care in industry, the stress disorders, problems associated with older workers, and compensation for residual disability. Legal conferences revolved around recent legislative changes in statutes providing compensation for occupational diseases, the value of pre-trial conferences in compensation cases, the meaning to management of the problem of industrial noises, and the legal interpretation of limitation provisions in compensation statutes.

There were other conferences on the background and administration of compensation laws. Engineering conferences dealt with a report on the London fog of December, 1952, mechanical arrangements for the control of dust and fumes, collection and cleaning of wet corrosive gases, and related subjects. There was also a chemical-toxicological conference included in the report.

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Essential Oils, Aromatics, Flavorings

The spot market displayed considerable price activity last week. There were six advances noted in the essential oils and five declines. In the former group was bay oil, NF, which was 10 cents higher and natural bergamot oil, up 15 cents per pound. The rising cost of raw material in the Netherlands resulted in a 25 cents increase in the price of NF caraway oil. The crude oil was noted to have strengthened considerably at origin. Pennyroyal oil was advanced 10 cents per pound while eucalyptus oil, rectified, NF, was 7c higher for the 70/80 percent quality and 10 cents on the 80/90 percent oil. Peppermint oil continued to advance as increasing evidence of the poor yield of high test oil indicated a strengthening in overall market prices. The natural oil was advanced 25 cents per pound with the redistilled peppermint oil increased 15 cents.

Of the group to be reduced, crude birchtar oil was the most prominent in the extent of its decline, dropping 25 cents per pound. The decrease was reportedly due to the increased availability of new crop oil. Native cajeput oil declined 10 cents with redistilled quality off 15 cents. Coriander oil was reduced 20 cents and juniper berry, NF, 5 cents per pound. The high levels to which citronella oil rose in recent weeks took a downward trend last week as consumer resistance forced prices to drop 10 cents on the Ceylon estate quality and 15 cents on Java and Java type oils.

In the seeds and spices group, price changes were predominantly upward. Mexican and Syrian anise seeds advanced 1 cent while all types of fennel seed were advanced ½ cent. Danish mustard seed was advanced ½ cent with other qualities holding unchanged or nominal. Cassias firmed somewhat, advancing ½ cent on the cuttings and shortstick cracked. A ½ cent per pound decline in Indian celery and Roumanian coriander seeds constituted the items reduced in this section.

Aromatic chemicals continued to hold steady, pricewise, in view of the shortage of several oils which are used as raw materials in the manufacture of many of the more important aromatic chemicals. The reported production of citral though a new synthetic method appeared to be some distance in the future insofar as being commercially practicable, it was noted. Meanwhile citral prices continued at extremely strong levels in view of the firm market in lemongrass oil.

Price Trends

Advanced

Anise seed, Mexican, 1c. per lb.
Syrian, 1c. per lb.
Cassia, Batavia, cuttings, ½c. per lb.
shortstick, cracked, ½c. per lb.
Fennel seed, ½c. per lb.
Ginger, African, 1c. per lb.
Mustard seed, Danish, ½c. per lb.
Oil, bay, NF, 10c. per lb.
Bergamot, Italian, natural, 15c. per lb.
Caraway, NF, 25c. per lb.
Eucalyptus, NF, rectified, 70/80%, 7c. per lb.
80/90%, 10c. per lb.
Pennyroyal, 10c. per lb.
Peppermint, natural, 25c. per lb.
redistilled, 15c. per lb.

Reduced

Celery seed, Indian, ½c. per lb.
Coriander seed, Roumanian, ½c. per lb.
Oil, birchtar, crude, 25c. per lb.
Cajeput, native, 10c. per lb.
redistilled, 15c. per lb.
Citronella, Ceylon, 10c. per lb.
Java, 15c. per lb.
type, 15c. per lb.
Coriander, 20c. per lb.
Juniper berry, NF, 5c. per lb.

Comparative Price Indexes

(100—1949 average)

Last week	Prev. week	Last month	Oct. 2, 1953
138.10	138.10	137.99	144.59

(For Current Prices see page 9)

Essential Oils

Bay—The spot market showed some increase in strength on bay oil, NF, which was advanced 10c. per pound and was currently offered at $1.55 to $2 per pound.

Bergamot—Spot prices on natural bergamot oil were firmer last week as the market advanced 15c. per pound. Current offerings ranged from $10.90 to $13 per pound, depending upon supplier.

Birchtar—New crop oil has resulted in a lowering of former minimum price levels. Current offerings of crude were down 25c. from previous quotations and were currently quoted at $1.50 to $1.90 per pound.

Cajeput—The spot market has shown some slight easing in view of the good supply position, at the present time. Current quotations were 10c. lower on the native oil while the redistilled, USP, was off 15c. The current price range on the former was from $1.90 to $2.10 per pound while the latter was pegged at $2.40 to $2.80.

Camphor—Camphor oils of all types continued in extremely short supply, a situation which was not expected to be alleviated until next Spring or Summer at the earliest. Prices have almost doubled in price in recent months although current levels have held steady for several weeks.

Caraway—Caraway oil, NF, has been advanced, reflecting the higher cost of raw material, at source. The current range was from $3.50 to $5 per pound, an increase of 25c. over previous price levels.

Citronella—The spot market eased slightly last week as demand for citronella oil declined in face of the fantastically high prices to which it attained in recent weeks. Java and Java type (Formosa) qualities declined 15c. per pound while Ceylon estate oil was off 10c. The current market on Ceylon quality ranged from $1.10 to $1.75 per pound while Formosa oil was quoted at $1.50 to $2.

Coriander—A 20c. per pound decline was noted last week in the spot market on coriander oil. Current quotations ranged from $14.75 to $18 per pound, depending upon seller.

Eucalyptus—Prices were up about 10 percent on this oil in the spot market. New crop supplies were reportedly not expected to reach this market until midwinter. As a result, price increases are expected in view of the strengthening market for available supplies.

Juniper Berry—The market was slightly easier with current quotations off 5c. from previously quoted levels. The spot market ranged from $2.70 to $3.80 per pound.

Lavender Flower—The spot market continued firm in view of the strong market in France. Despite reported sharp advances in France, some dealers here have been able to maintain their schedules without advancing them at a rate proportionate to the increase at source. Consumer demand, of course, continued to be a prime factor in this outlook.

Spanish spike lavender oil continued to advance at source. This year's crop has been estimated as not exceeding 100 tons. There has been no carryover from last year reported with the resultant prediction that demand will probably exceed supply. World demand was reported to be heavy.

Pennyroyal—This essential oil has undergone a sharp advance with the spot market up 30c. over previous levels. Current quotations range from $1.90 to $2.50 per pound.

Peppermint—Although this year's peppermint oil crop has been fair in its overall size, the amount of high test oil available has been disappointing. Consequently, the price of high quality peppermint oil has been bidded up with last week's increases totaling 25c. on the natural oil and 15c. on the redistilled. Current quotations on the former ranged from $6.25 to

Imports Detained by FDA

(This report now appears bi-weekly.)

Week Ended September 24

New York

Black pepper (208 lots), 14,494 bags: moldy.
Chamomile flowers, 37 cases: filthy.
Chillies, 162 bags: filthy.
Cocoa butter 73 drums: moldy and dirty.
Coriander seed (3 lots), 750 bags: filthy.
Cloves, 200 bags: filthy.
Cumin seed, 100 bags: filthy.
Cocoa beans (6 lots), 2,755 bags: insect infested; moldy and wormy.
Cassia (3 lots), 347 bags: filthy.
Celery seed, 60 bags: insects.
Caraway seed (2 lots), 200 bags: filthy.
Dill seed (3 lots), 560 bags: filthy.
Eupharbia Pilulifira, 57 bags: filthy.
Gum Karaya, 30 bags: filthy.
Mace (5 lots), 40 cases: insects.
Nutmegs (6 lots), 1,014 bags: moldy and wormy.
Pumpkin seed, 150 bags: filthy.
Rhubarb root (3 lots), 224 bags: insects.
Rauwolfia Serpentine root, 30 bags: is rauwolfia Canescene.
Sesame seed: 1,052 bags: filthy.
Turmeric (6 lots), 480 bags: insects.

For Late Market Developments, See Page 4

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$7 per pound while the latter was pegged at $6.50 to $7.50.

Miscellaneous

Anise Seed—Mexican and Syrian anise seed advanced 1c., on spot, last week. the current quotation on the two qualities was 23c. per pound while Spanish anise seed was steady at 33c.

Cassia—Batavia cassias continued to firm. Batavia cuttings advanced ½c., on spot, and was quoted at 16½c. per pound. Shortstick, cracked, advanced ½c. per pound and was quoted at 18c. per pound while longstick held unchanged at 19c.

Celery Seed—French celery seed was quoted at 50c. on shipment. Indian celery seed was ½c. lower at 13½ to 14c. per pound.

Coriander Seed—Roumanian coriander seed declined ½c. last week and was currently quoted at 8c. to 8½c. per pound. Moroccan seed was steady at 11c. to 11½c.

Fennel Seed—Argentine fennel seed advanced ½c. per pound being quoted at 10½c. to 11c. per pound. Czech and Indian fennel seed was also ½c. per pound higher with these two qualities offered at 11c.

Ginger—African ginger was stronger with spot quotations up 1c. per pound at 32c. Jamaica ginger No. 1 continued nominal while numbers 2 and 3 were steady at 36c., and 34c., respectively.

Mustard Seed—Danish mustard seed advanced ½c., on spot, and was quoted at 12c. per pound. English, yellow mustard seed was nominally quoted, being virtually unobtainable, on spot, according to trade sources.

Pimento—There continued to be no offerings of Jamaican pimento for spot sale. A price of 70c. per pound has been quoted on September shipment, with goods afloat at 85c. Reports from Jamaican indicate that direct consumers of pimento have been trying to get as much as double the quantities usually bought and have been reduced accordingly by the government there which is reportedly trying to inhibit the recent speculative price spiral in pimento in world markets.

It was further noted that growers had

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held up the picking of the berries until the last possible moment in view of world prices and consequently the crop has begun pouring into government warehouses at a much higher rate than would have been the case if normal harvesting procedures had been followed this year. Although rains were responsible for some delay in harvesting of the crop, it was thought that fruiting of the trees had not been affected adversely to any appreciable extent. It was reported to be the belief of the government there that unless prices are brought down to more attractive levels, substitutions will be made with the overall effect of reducing consumption. Speculation as to whether Russia would come into the market again continued a popular topic in trade quarters. Sales of substantial quantities to the Soviet would naturally have an effect upon the quantity of pimento available to the rest of the world.

Poppy Seed—Argentine and Polish quality poppy seed have fallen into the nominal category to the virtual unavailability of spot supplies. Dutch and Turkish qualities continue very strong with the former quoted at 36c.-37c. per pound and the latter, 31c. per pound.

Sage Leaves—Dalmatian and Cretan sage leaves continued to manifest a firm statistical position. The former was strongly held at 42c. to 43c. and the latter, at 13c. to 14c. per pound.

Vanilla Beans—The market continued very firm, on spot. The market at origin was very strong, with offerings limited. Current prices on vanilla beans ranged from $10.75 to $11.75 on Bourbon beans with Mexican whole bean at $10.75 to $11.50 and cuts, at $10.50 to $11.

Synthetic Menthol Certificates Are Reported Now Available

Elting Arnold, acting director of Foreign Assets Control, last week issued the following announcement:—"Notice is hereby given that certificates of origin issued by the Comptroller General of Customs for the Commonwealth of Australia under procedures agreed upon between that government and the Foreign Assets Control are now available with respect to the importation of synthetic menthol into the United States directly, or on a through bill of lading from Australia."

Walsh Manager Visiting Paraguay

Raymond A. Lermond, general manager of John D. Walsh Company, New York, is making a trip to Paraguay to obtain information on new crop oil.

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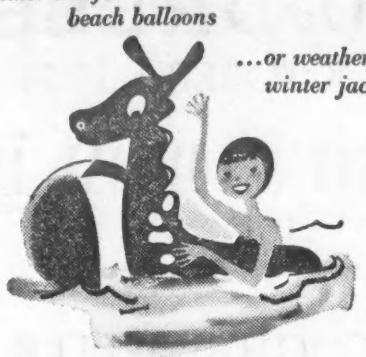

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Lead metallic paste was higher again last week as a result of the cumulative effect of increases in the pig lead market. Other pigments affected were basic carbonate and basic silicate white leads. Most producers, satisfied with the current rate of consumption forecast a further improvement in business for the fourth quarter. Carbon blacks and zinc oxides were moving better to the rubber industry following settlements of various strikes.

Industrial consumption of most synthetic resins appeared to be on the upswing last week, following a dull summer period for some items. Resin emulsions for paints continued to move very well to the paint trade. Alkyd producers watched closely recent declines in the soybean oil market, as competition remained keen for the more widely used alkyds. Polymethacrylate emulsions showed a good month-by-month broadening in consumer interest.

Lacquer materials were subject to increased demand, with good call noted for dioctyl phthalate. Prices for this plasticizer were judged firmer than for many weeks by the trade. Di-iso-octyl phthalate also appeared to be on the stronger side, although there were a few indications of shading in firm bids for large quantities. Triethyl citrate, as well as other edible esters, was said to have been moving at a good pace for the last few weeks.

Copal and dammar resins continued strong pricewise, with gains scored for Manila soft MA. Other resins were firm and unchanged, in the face of heavy demand from Germany and Japan at foreign markets combined with revived consumer interest in this country. Shipment prices for Argentine casein were off last week, due to a combination of lack of demand here, and the prospect of a good flush season in Argentina.

Price Trends

Advanced

Gum, copal, Manila, soft MA, 1½c. per lb.
Lead, metallic paste, ½c. per lb.
White, basic carbonate, 1c. per lb. basic silicate, ½c. per lb.

Reduced

Casein, Argentine, 1c. per lb.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Oct. 1, 1953
97.05	97.05	97.05	96.21

(For Current Prices see page 9)

Prime Pigments

Chrome Colors—The following figures, compiled by the Bureau of Census, show tonnage production of CP chrome pigments:—

Pigment—	July	June	July '53
Chrome green	548	714	660
Oxide green	666	614	1,191
Yellow and orange	1,805	2,116	2,032
Orange, molybdate	375	403	304
Zinc chromate	478	432	616
Totals	3,872	4,279	4,803

* Revised.

Earth Colors—Sales moved at a steady rate last week, with prices unchanged. Material was readily available to consumers on a prompt shipment basis.

Iron Blues—No price changes took place dupring the week. To most sources, business looked to be much improved over summer levels. Paint trade sales showed sizable gains, while industrial consumption appeared higher as the automotive industry recovered from retooling periods.

Lead Pigments—The lead metal market remained stable last week. Basic carbonate white lead was up 1c. per pound, while basic silicate was increased ½c. per pound, due to cumulative advances in pig lead. Lead metallic paste was up ½c. per pound. Consuming demand was slightly higher than previously.

Titanium Dioxide—Anatase and rutile types were quotably unchanged last week. Manufacturers said that demand was strong for both exterior and interior finishes.

Zinc Pigments—Slab zinc was unrevised last week, and zinc dust pigment continued unchanged as a direct result. Oxides moved out in large volume, with buying interest well sustained.

Synthetic Resins

Alkyds—One source noted a slight increase in industrial consumption. However, it was said that there was hesitation on the part of buyers, who waited for further decreases in the price of soybean oil before coming into the market. Early last week, the oil continued on the down side. Competition continued very much in evidence among producers, as the large number currently making alkyds vied for favorable market positions.

Maleics—Consuming interest, particularly from industrial quarters, was up last week, as automobile plants showed signs of returning to production. Other industrial finishes also took good quantities. Prices were regarded as fairly steady.

Melamines—A good volume of sales was shown due to a rise in consumption for industrial end uses. Prices held without change. Demand looked favorable to most producers, who anticipated a good fourth quarter.

Phenolics—A major producer increased prices 2c. per pound for shell molding types last week. Demand was steady. A flurry of sales was expected during the last quarter.

Polymethacrylates—Sales of the various emulsions had shown a steady month by month increase, it was said. All types were reported selling well to consumers. Present prices were judged firm.

Urea-Formaldehydes—An upturn in industrial consumption cast favorable light on the market. It was felt that demand would improve further as the year progressed.

Lacquer Materials

Dibutyl Phthalate—Buying interest ran at about the same pace as previously. Prices continued without change at 30c. per pound, tankcars, delivered, 32c. per pound, drums, carlots, same basis, and 33c. per pound, less carlots, same basis.

Di-iso-octyl Phthalate—Listings continued unrevised at 30½c. per pound, tankcars, delivered, 32½c. per pound, drums, carlots, same basis, and 33½c. per pound, less carlots, same basis. The market appeared firmer to most observers last week. There were still some indications of spot shading, but it was felt that consumers in anticipation of a better economic situation for the fall and early winter had placed more orders for larger quantity delivery, thus firming the market.

Dioctyl Phthalate—Producers felt that even if the threat of a trucking strike in the New York area were disregarded as a factor, business was still very good. Several makers reported a marked upswing in buying during the forepart of September. To most, the outlook for the fourth quarter was very satisfactory.

Edible Esters—The market for citrate plasticizers showed substantially increased activity last week. Triethyl citrate, in particular, was said to be moving out very well to consumers at recently lowered prices of 45¾c. per pound, tankcars, works, 48c. per pound, drums, carlots, same basis, and 53c. per pound, one-drum quantities, same basis. Generally, inquiry was said to have improved considerably during the last six weeks in such fields as plastics, adhesives, food wrappers, and use as anti-foaming agents.

Natural Resins

Copal Manila soft MA gum was very scarce, and higher at 20½c. to 21½c. per pound in the face of active demand both at primary markets and on spot in this country. Germany and Japan continued to show strongly on foreign markets, particularly for Manila DBB and MA. Dammar gums were unchanged and firm. Domestic consumption indicated heavy activity on the part of buyers.

Shellac—The Calcutta market eased somewhat during the early part of the week, influenced to some extent by the possibility of a good November sticklac crop. However, suppliers in this country were uncertain as to the future of prices here. Some felt that the market would continue unchanged, at least for the near future. Bleached grades were unrevised in price, and orange grades continued entirely nominal.

Fillers and Inerts

Asbestos—The market showed little or no change. Prices remained the same. Consuming demand held about steady for all end uses.

Calcium Carbonate—Chalk and whiting sales to the paint trade were said to have

For Late Market Developments, See Page 4

shown improvement last week. Prices held unaltered. Supplies were plentiful.

Pumice—Prices for imported Italian pumice were held without change last week. Consuming interest was moderate.

Tricresyl Phosphate—Coaltar and petroleum types moved well both as plasticizers and petroleum additives. Prices were unchanged and steady.

Miscellaneous Materials

Casein—The market was weak and lower for Argentine casein. Lack of demand combined with the prospect of plentiful supplies in Argentina brought about by a good flush season exerted a depressing effect. Shipment was off to 23c. to 23½c. per pound, duty paid. French offerings were thought to have diminished somewhat during the last two weeks. New Zealand material continued to show independence, with prices unchanged. Consuming mills here hesitated to buy, except for small fill-in needs.

Naval Stores

The following figures compiled by the Department of Agriculture indicate production of naval stores:—

	Barrels* July	Barrels* August
Turpentine, gum, central, stills.	24,820	22,550
Wood, steam, distilled	17,210	15,920
destructively distilled	160	210
sulfate	14,310	16,530
Total	56,500	55,210
Dipentene	2,220	2,520
Pine oil	15,310	16,920
Pine tar	6,880	7,480
Other monocyclic hydrocarbons	6,330	6,570
	Drums†	
Rosin, gum, central stills	70,630	65,460
Wood, steam distilled	110,650	109,240
Total	181,280	174,700

* Barrels of 50 gallons.
† Drums of 520 pounds net.

Rosin, Gum

(USDA, per 100 lbs.)

	Fri	Mon.	Tues.	Wed.	Thur.
Drums—					
K	$7.70		...	...	$7.78§
M	...	$7.70	...	...	...
N	...	7.71½§	...	$7.89§	...
WG	7.82§	...	...	7.79§	7.80
WW	7.92	7.99§	$7.98§	7.98§	8.00
Bags—					
WG	7.65	...	7.65	...	...
WW	...	...	7.75	...	...

Tankcars (for week ended September 24)—WG $7.30, N $7.25, 968*

Sales, USDA: 490* 372* 496* 615* 675*

New York (per 100 lbs., c.l., Friday)
B through M $8.65, N $8.70, WG $8.80, WW $8.95

Turpentine, Gum

(USDA, per gal., 7.2 lbs.)

Price	.5125	.5125	.5125	.514	.5125
Sales	6,000¶†	8,000¶†	4,000¶†	22,000¶†	12,000¶†

New York, Friday, per gal. 7 lbs., tankcars, 61c., l.c.l. 73c.

*Drums equivalent. †Tankcars. ¶Gallons. §Average price.

Cyanamid Plastics Unit Pacific Post to Gilman

James W. Gilman has been appointed sales representative in the Pacific northwest for the plastics and resins division of American Cyanamid Company. With his headquarters at Cyanamid's Seattle, Wash., office, Mr. Gilman will be responsible for sales and service of all division products in that region

Mr. Gilman joined Cyanamid in 1945 as coating resins technical representative in the northwest. He served in that capacity for three and a half years before being transferred to Los Angeles. Prior to his Cyanamid service, he headed the laboratory of Old Colony Paint & Chemical Company. E. B. Cordon, in charge of the west coast technical service for Cyanamid's coating resin accounts, will continue to serve the San Francisco area as well as the southern California territory. He will also make occasional trips to the northwest.

Vita-Var Names Pearce

Vita-Var Corporation, Newark, N. J., has appointed R. A. Pearce assistant sales manager of the trade sales division. Mr. Pearce started with the company fourteen years ago in the advertising department. He later became a sales representative and served in various capacities in the sales department.

Iron Oxide Pigments Are Added To Line by Columbian Carbon Co.

Two new color pigments, "Mapico Tan 15" and "Mapico Brown 422," have been announced by Columbian Carbon Company, New York, the manufacturer, and by Binney & Smith Inc., New York, the distributor. "Mapico Tan 15" is reported to possess extremely fine particle size, pleasingly bright color reflectance, exceptional softness, and easy dispersion. "Mapico Brown 422" is approximately 98 percent ferric oxide, it was stated, and is a single pigment color with excellent shelf stability over long periods.

Nat'l Lead's Titanium Corp. Opens Houston, Tex., Office

Titanim Pigment Corporation, a subsidiary of National Lead Company, New York, has announced the opening of a sales office in Houston, Tex., under the supervision of H. M. Henley. The office will be located at 70 M&M Building. It will be the focal point for sales service in Texas and adjacent states. Mr. Henly formerly was in charge of the Pittsburgh, Pa., office. He started his career with National Lead in 1940 at its titanium division's plant in Sayreville, N. J. In 1947 he was transferred to Titanium Pigment Corporation in a sales capacity.

Cyanoethylation of Cotton Detailed In Monsanto Technical Publication

A technical bulletin detailing equipment and procedure for experimental cyanoethylation of cotton yarn, fabric and fibers is available from the plastics division of Monsanto Chemical Company, St. Louis, Mo. The bulletin contains text and diagrams showing the cotton cyanoethylation reaction and a complete description of the properties of cyanoethylated cotton.

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Soybean Shipments Lower Through Suez This Year

The northbound movement of soybeans through the Suez Canal during January-June of this year, nearly all of which were of Chinese origin, totaled 290,000 short tons (9,670,000 bushels) or a decrease of 6 percent from the 310,000 tons (10,330,000 bushels) which passed through the canal in the first half of 1953, according to the Foreign Agricultural Service.

The passage of soybeans through the canal in the first six months probably represents the bulk of the 1954 northbound movement, it was stated, as January-June shipments in 1951 and 1953 constituted 68, 90, and 88 percent, respectively, of the total twelve-month transit in those years.

The total volume of all oilseeds to pass northward through the canal in January-June was 1,165,000 tons as compared with 1,136,000 tons during the first six months of 1953. Soybean shipments totaled 290,000 tons against 310,000 tons; copra, 377,000 tons against 271,000 tons; peanuts, 197,000 tons against 173,000 tons; cottonseed, 95,000 tons against 84,000 tons; flaxseed, 24,000 tons against 26,000 tons, and "other," 182,000 tons against 272,000 tons.

Pitts. Plate Names Batenburg Information Services Director

Appointment of Michael J. Batenburg as director of information services for Pittsburgh Plate Glass Company, Pittsburgh Plate Glass Company, Pittsburgh, Pa., has been announced by Harry B. Higgins, president. Also announced were the appointments of Richard W. Dittmer as manager of public relations and Norman L. Park as manager of publications.

As director of information services, Mr. Batenburg will be in charge of the company's public relations, publications and advertising. In this capacity, he succeeds Guy J. Berghoff who recently was appointed assistant to the vice-president, merchandising division.

Mr. Batenburg joined the company as an industrial paint sales representative in 1939, later became manager of sales service for the firm's paint division. In 1947, he became manager of paint advertising and, in 1953, he was appointed general advertising manager for the firm. Mr. Dittmer joined the firm in 1949 as manager of glass advertising and since 1953 has served as assistant director of public relations. Mr. Park joined the firm during 1947 as editor of company employee and product publications.

N.Y. PVLA to Meet October 14

The New York Paint, Varnish & Lacquer Association will hold its first fall meeting on October 14 at the Biltmore hotel, New York. Cocktails will be served at 6:30 p.m. and dinner at 7. Entertainment will include movies of the association's last sports outing at the Westchester Country Club.

Flaxseed in Uruguay Seen Over Last Year's Sowings

Flaxseed sowing in Uruguay in the 1954-55 season may exceed last year's acreage of 254,918 acres by 10 percent, according to Dale E. Farringer, agricultural attache, American Embassy, Montevideo.

Exports of flaxseed, linseed oil, and sunflower oil were low in the first six months of this year, it was stated. No peanuts or peanut oil were exported. Most of the exports of Uruguayan vegetable oils went to European markets and 1,179 short tons of sunflower meal were exported to the United States.

In August 18,739 tons of linseed oil were reported sold, priced at 6.7 cents per pound, f.o.b., Montevideo, of which 9,921 tons went to Europe. Approximately 2,205 tons of linseed oil from the 1953-54 production, in addition to 590,518 bushels of flaxseed, are still available for export sale. About 1,650 tons of sunflower oil have been declared exportable surplus with no buyer interest indicated at present, Mr. Farringer said.

Bids Wanted

Carnauba wax, 275 gals., inv. 5, Oct. 21. Black Hills Ordnance Depot, Purchasing Office, Igloo, S. Dakota.

Insecticide, 7,200 gals. lindane, liquid, inv. N 140-39, Oct. 15. Navy Purchasing Office, Navy Dept., Naval Supplies Activities, 29th & 3rd Ave., Bklyn., N. Y.

Methanol, 13,400 gals. tech., East & West Coasts, inv. 155 (1)-295, Oct. 11, Gen. Stores Supply Office, Navy Dept., 700 Robbins Ave., Phila. 11, Pa.

Paint, 170 gals. lusterless, emulsion, orange, type 1, inv. 31, Oct. 25, Contracting Officer, Sacramento Signal Depot, Sacramento, Calif.; 4,000 gals. concrete and masonry paint, inv. 383-137, Oct. 21, 7,000 gals. interior enamel, inv. 383-142, Oct. 22, 4,000 gals. interior, semigloss enamel, 2,923 gals. interior oil, ready mixed paint, East and West Coast, inv. 383-130, Oct. 19, 17,200 gals. interior, gloss enamel, East and West Coast, inv. 383-126, Oct. 20, Aviation Supply Office, Navy Dept., 700 Robbins Ave., Phila. 11, Pa.

Sodium bicarbonate, 70,000 lbs., tech., inv. 155-258-B, Oct. 7, Gen. Stores Supply Office, Navy Dept., 700 Robbins Ave., Phila. 11, Pa.

Sodium dichromate, 40,000 lbs. tech., East and West Coasts, inv. 155 (1)-293, Oct. 12, Gen. Stores Supply Office, Navy Dept., 700 Robbins Ave., Phila. 11, Pa.

Sodium hypochlorite, 49,068 qts. solution, inv. 155-258-B, Oct. 7, Gen. Stores Supply Office, Navy Dept., 700 Robbins Ave., Phila. 11, Pa.

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Tidelands Royalty Payment Made to State of California

A check for $22,041,994.66 was turned over to the State of California by the federal government September 24. The payment represented royalties due the state from oil development on the California tidelands which had been placed in escrow pending settlement of the tidelands issue.

The money had been accumulating since 1947 when the Supreme Court of the United States first ruled, in the California case, that the federal government, and not the states, had paramount rights and power over the resources beyond the state coast line. After congress nullified the decision and turned title over to the states in the submerged lands act last year and the supreme court dismissed suits attacking the constitutionality of the act, the way was cleared for payment of the funds to the state.

Esso Export Corporation Elects Parker Its President

George M. Parker has been elected president of Esso Export Corporation, international sales affiliate of Standard Oil Company (New Jersey), succeeding William J. Haley, who has retired. Mr. Parker, who became executive vice-president of Esso Export in 1953, has been with the Jersey organization for twenty-six years. In his new capacity Mr. Parker also becomes president of Mediterranean Standard Oil Company as well as three other newly-formed Jersey affiliates:—Staniraq, Ltd.; Mediraq, Ltd., and Esso Trading Company of Iran.

Italy Ready to Permit

—Continued from page 3

consideration by the Italian government in drafting the new law. Among the points that have been made are these:—

1) The drug industry feels that there should be no discrimination between the pharmarceutical industry and any other industry in the issuance of process patents.

2) The industry is willing to waive claims for infringement of patents occurring prior to some specific date. January 1, 1955, has been suggested as the cut-off date.

3) The industry will have no objection to compulsory licensing of patents three years from the date of issuance, if the patent has not been worked satisfactorily; i.e., supplies of the drug have not been made available in sufficient amounts to meet requirements.

4) The industry will not object to the establishment of a government committee to decide disputes concerning compulsory licensing.

What US Drug Makers Oppose

On the other hand, the American industry would object to provisions in the law providing for:—

1) Review of patent applications by a so-called committee of industry experts since this would open the way for abuses of the patent system such as allowing competitors to examine a process before it has been given patent protection.

2) Immediate compulsory licensing of pharmaceutical processes.

AIChE South Texas Unit

—Continued from page 7

Company, a division of Union Carbide & Carbon Corporation, in South Charleston, W. Va.

The third session will hear the presentation of the following papers:—"General Petrochemical Outlook for the Gulf Coast," by Henry Groppe, of Monsanto Chemical Company in Texas City, Tex.; "Polyethylene—Recent Developments and Future Trends," by Harold Holtz, of Bakelite Company, a division of Union Carbide & Carbon Corporation, in St. Louis, Mo.; "Development of the Synthetic Ammonia Industry in the United States," by Charles H. Davenport, of Lion Oil Company, El Dorado, Ark., and "Trends in the Production of Oxy Chemicals," by J. E. Wall, of Celanese Corporation of America in Clarkwood, Tex.

At the fourth session, for students, the following papers will be presented:—"Current Labor Laws of Interest to Engineers," by Tom B. Davis, of Baker, Botts, Andrews & Shepherd, of Houston; "How to Borrow a Million Dollars," by Gordon Turrentine, of the Chamber of Commerce in Houston, and "Life Insurance Needs of Most Men," by C. D. Stephens, of Prudential Insurance Company of America in Houston.

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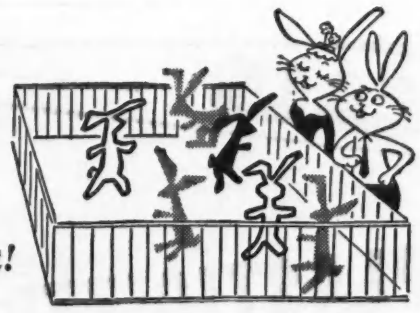

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Oils, Fats and Waxes

Trend of prices for edible vegetable oils continued downward last week, led by soybean oil which dropped sharply as a result of increased movement of new crop soybeans. This was reflected in competing oils. Corn and cottonseed oils also were off fractionally. Buying interest was slow and restricted to prompt requirements. Peanut oil, however, was stronger due to scarcity of available oil. Offerings were scarce and market was entirely nominal. Coconut oil was slightly higher for prompt shipment on the Pacific coast but quotably unchanged in the East. Copra held steady.

Tallow and greases remained firm. Bleachable fancy and extra were up slightly. Other grades were unchanged. Export inquiry was spotty, while domestic demand lacked snap. Soapers showed moderate interest in replacements, but low bids were not accepted.

Recent sharp price reductions in oiticica oil, improved consuming interest. Sales of heavy tonnage was reported for prompt and later delivery, which absorbed the bulk of cheap oil. Active trading took place in linseed oil for forward delivery up to next June. This improved the tone of futures and crushers lifted quotations fractionally, while spot and October deliveries were unchanged and steady. Consuming inquiry for tung oil was limited with light sales reported at slight concessions for prompt needs.

Trading in oilmeals continued light, chiefly for nearby, though interest in futures was quite active. Lower bids for soybean meal for forward delivery were turned down. Prices were unchanged and steadier at the close. Cottonseed meal was firm, up $1 per ton.

Price Trends

Advanced

Castor beans, $10 per ton.
Cottonseed meal, $1 per ton.
Grease, choice white, not all hog, ¼c. per lb.
Oil, oleo, 1c. per lb.
Peanut, crude, 1½c. per lb.
refd., 1½c. per lb.
Oleo stearine, ½c. per lb.
Tallow, edible, ¾c. per lb.
extra, ½c. per lb.
fancy bleachable, ½c. per lb.

Reduced

Acid, lauric, 1c. per lb.
Cocoa butter, 3c. per lb.
Lard, cash, ½c. per lb.
Oil, corn, crude, ¼c. per lb.
refd., ¼c. per lb.
Cottonseed, crude, ¼c. to ¼c. per lb.
refd., ¼c. per lb.
Soybean, crude, ½c. per lb.
refd., ½c. per lb.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Oct. 2, 1953
102.20	98.76	108.08	92.68

(*For Current Prices see page 9*)

Vegetable Oils

Castor—Demand lacked volume as users continued to limit purchases to actual needs. All grades were maintained at current prices. No. 1 Brazilian ranged from 15½c. to 15¾c. per pound, tankcars, New York prompt delivery as to seller.

Coconut—Trading was reported slow. Crude oil was offered at 12c. per pound, tankcars, f.o.b. Pacific coast, nearby and later shipment. The New York market was quiet and unchanged at 12¾c. per pound, tankcars, prompt delivery.

Corn—Crude continued weak and market dropped fractionally. Crude oil was sold at 13c. per pound, tankcars, f.o.b. mills. Refined oil was quiet and offered at 16¼c. per pound, tankcars, New York basis.

Cottonseed—Bleachable cottonseed oil futures remained on a steady basis last week, scoring fractional gains. Trading continued limited, the market reflecting fluctuations of soybeans. Hedging pressure was light. Demand for cash oil was fair. Refined salad oil declined to 16¼c. per pound, tankcars, New York for prompt delivery. Consumption of refined oil for August was up to expectations, totaling 2,467 tankcars, compared with 2,012 in July, and 1,166 in August, last year. Visible supply at the end of August was estimated 17,543 tankcars, against 17,683 in July, and 17,135 end of August, last year.

Crude cottonseed oil was quiet and slightly lower. In the southeast market was nominal at 12⅝c. per pound, tankcars, f.o.b. mills, first half October; Valley, 12½c., and Texas, 12⅛c., same basis.

Margarine production in August established a new record totaling 105,344,000, compared with 96,053,000 pounds in August, 1953, and August, 1949-53 average of 87,672,000 pounds. For the January-August period of this year, production amounted to 877,246,000 pounds, against 826,302,000 pounds for the same period of 1953. So far this year, margarine production is running about six per cent over last year. Per capita consumption in 1954 is expected to reach 8.0 pounds per person.

Sales and prices of prime summer yellow cottonseed oil futures in tankcars (60,000 pounds) on the N. Y. Produce Exchange for the week ended October 1 follow:—

	Sales	Cents per pound—High	Low	Close
October	25	14.60	14.50	14.62@14.75
December	67	14.75	14.50	14.55@14.62
1955				
March	52	14.85	14.62	14.71S
May	67	14.97	14.65	14.75@14.76
July	9	14.85	14.75	14.76@14.80

Total sales, 220 contracts.

Memphis.—Crude cotton seed oil was bid 12½c. per pound, tankcars, f.o.b. mills, first half October. Business quiet. Crude cottonseed oil was nominal at 12c. per pound, tankcars, Decatur, same position. Cottonseed meal held at $70 per ton, asked, Memphis. Cottonseed hulls, quoted at $20 per ton, asked, Memphis, and $16 per ton, bulk, with demand fair.

Linseed—Active trading featured the market, with consumers booking heavy tonnage of raw oil at 12c. per pound, tankcars, f.o.b. Minneapolis for November up to next June requirements. This stiffened the market for forward position and prices were fractionally higher. Spot delivery was held at 15½c. per pound, tankcars, Minneapolis; 15c., first half October; 14c., second half October; 12½c., November-December; 12.6c., January-March, and 12.7c., April-June, same basis. Withdrawals against current continued to move in steady volume.

Department of Agriculture has announced that about 550,000 bushels of 1953-crop flaxseed acquired by the Commodity Credit Corporation are offered for export sale on a competitive bid basis. Quantities offered consisted of 350,000 bushels stored in the Duluth area and 200,000 bushels in the Minneapolis area. Offers will be considered basis U. S. grade No. 1 flaxseed f.o.b. vessel Duluth, or f.o.b. cars Minneapolis. CCC reserves the option of delivering grade No. 2 flaxseed at 5c. per bushel discount, and makes no guarantee of dockage.

Sales of flaxseed for export since May 1, when 1954 export sales began, totaled 8,500,000 bushels — including sales of 2,430,000 bushels offered on August 12, and 1,250,000 bushels offered on August 26 on a bid basis. Offers will be received by the Minneapolis Commodity Office, Commodity Stabilization Service, 1006 W. Lake Street, Minneapolis 8, Minn., not later than 2 p.m., CST, October 6 for acceptance or rejection not later than 2 p.m., CST, October 7.

Minneapolis.—Demand for raw linseed oil at current levels was very dull last week. There were the usual routine fill-in sales made to trade that does not book too far ahead, or to trade that under-estimated needs. Buyers were hopeful a waiting attitude would see a heavy run of flaxseed to market, which would mean better buying levels on oil. The pricing schedule, meanwhile, held steady but actual trades were made at under these levels, trade observers said Crusher asking prices on raw oil in tankcars, f.o.b., Minneapolis, were as follows:—first-half October, 15c. a pound; second-half October, 14c.; November-December, 12.5c.; January-March, 12.6c.; April-June, 12.7c.

Shipments of linseed oil, in pounds, were as follows (year-ago total readusted):—

	1954-55	1953-54
Past week	8,280,000	7,560,000
Since Sept. 1	35,780,000	35,400,000

Flaxseed — Market irregular, closing steadier. Trading active for later delivery.

Minneapolis.—Crushers reduced bids as much as 10c. a bushel temporarily last week (to $3.35 a bushel, Minneapolis) but they came back a nickel to $3.40, where most of the seed moved at. There was a heavy run of flaxseed sold "to-arrive" at $3.40. Crushers cut bids 5c. per bushel following this run and the offerings dried up, forcing them to go back to $3.40, delivered Minneapolis price. Spot cash purchases were light, totaling two dozen cars and only 1,500 bushels in trucklots. To-arrive bookings amounted to 517 cars and nearly one-third of a million bushels in trucklots. Actual receipts of flaxseed in Minneapolis (for spot sale, against previous "to-arrive" contracts, and for the account of CCC) totaled 626 cars for the week, compared with 408 cars in the preceding week and 852 cars in the like week last year. Shipments from Minneapolis totaled 187 cars as against 189 cars the preceding week and 252 cars a year ago. Northern Minnesota and North Dakota farmers resumed harvesting of flaxseed, following nearly two weeks of misty rain. After getting in about 5 days of operations, however, the rains started again. Crushers said this year's flaxseed crop generally is of low testweight. The minimum testweight on No. 1 flaxseed is 48 pounds to the bushel. Ac-

For Late Market Developments, See Page 4

cording to some crushing reports, many recent samples have had a testweight as low as 38 pounds to the bushel. Oil content is said to be lower this year, also, crushers said.

Receipts and shipments of flaxseed, in bushels, were as follows (with adjustments made in year-ago figures):—

	Receipts		Shipments	
	1954-55	1953-54	1954-55	1953-54
Past week.	1,095,500	1,097,500	327,250	122,500
Since Sept. 1...	4,721,250	5,195,750	1,447,250	757,750

Oiticica—Trading was active at the recent price decline, creating a firmer tone. Business of good volume was booked at 15c. per pound, tankcars, New York, for prompt delivery. Drums also were steadier and maintained at 16¼c. to 16¾c., depending upon quantity.

Olive—Demand was reported moderate. Market remained steady at $2.30 to $2.40 per gallon, drums, duty paid, depending upon quantity. Business was reported spotty.

Palm—Market was quiet, but steady. Drums were held at 12.4c. per pound and tankcars, 11.15c. per pound, prompt delivery.

Peanut—Crude was stronger, but nominal due to the scarcity of stocks. Tankcars were reported sold at 20c. per pound, f.o.b. mills. Refined oil was higher and nominal at 23c. per pound, tankcars, New York delivery.

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Production of oil stock peanuts, including ungraded crushing stock, both for domestic use and export totaled 361,000,000 pounds this season, compared with 124,000,000 pounds produced to this date last year.

Rapeseed — Supplies were light for prompt delivery and maintained at 17c. per pound, tankcars, New York basis. Futures were steady and quoted at 16½c. per pound, tankcars, November forward delivery.

Soybean—Market continued unsettled, dropping fractionally. Crude oil was quoted at 11⅞c. per pound, tankcars, Decatur, first week October; 11¾c., asked first half October; 11¼c., sales, second half October; 11¼c., sales, straight, October, and 11⅛c. sales, October-December. Refined salad was lower at 14⅝c. per pound, tankcars, New York, spot, and 14½c., first half October.

Consumption of crude soybean oil during August was indicated at 3,011 tankcars, compared with 2,585 in July, and 3,732, August, last year. Visible supply was estimated at 2,776 tankcars end of August, against 4,754 in July and 3,954 end of August, last year.

Sales and prices of crude soybean oil futures on the N. Y. Produce Exchange in tankcars (60,000 pounds) for the week ended October 1 follow:—

	Sales	Cents per pound High	Low	Close
October	19	11.30	11.00	11.15@11.20
December	37	11.00	10.75	10.78@10.80
1955				
March	55	11.03	10.85	10.78@10.83
May	19	11.04	10.84	10.84S

Total sales, 130 contracts.

Tung—Trading continued light and spotty. Tankcars were offered at 21½c. per pound, New York, prompt delivery, with some business reported at slightly less. Consuming inquiry lagged. Drums were unchanged ranging from 23c. to 23½c. per pound, depending upon quantity.

Miscellaneous

Castor Beans—Offers for shipment were higher and advanced to $100 per ton, f.o.b. Brazilian ports, against bids of $90 per ton. Inquiry was reported fairly active.

Imports of castor beans and castor oil at New York and Philadelphia last week were as follows:—

	Pounds Beans	Oil
Last week	1,628,250	.....
Previous week	139,000	1,786,000
Corresponding week, 1953.	1,655,550	2,680,000
Total this year	78,893,700	31,300,800
Corresponding period, 1953.	80,218,650	101,338,300

Cocoa Butter—This market continued weak, declining to 85c. per pound for spot delivery. Trading was reported light.

Copra—Shipments were irregular, but closed steady and unchanged at $162.50 per ton, c.i.f. Pacific coast.

Fats and Greases

Greases—Trading was reported spotty, lacking volume. Market was steady. Prices were unchanged, except for choice white, which was raised fractionally. All hog was higher at 10c. per pound, tankcars, delivered and not all hog at 8½c. Trading was fairly active in the former for export. Yellow grease was held at 6c. per pound, tankcars, delivered; house, 5⅞. and brown, 5¼c., same basis.

Lard—Market was irregular and lower. Cash lard was quote at 16¼c., per pound, drums, Chicago.

Oleo Oil—This market was stronger and lifted to 19½c. to 19¾c. per pound, drums, as to quantity. Oleo stearine also was higher at 13c. to 13½c. per pound, barrels, according to quantity and seller.

Tallow—Moderate volume of business was reported for export, while domestic demand was limited. Market was steady demand was limited. Market was steady. Bleachable fancy and extra was up ⅛c. and edible ¾c. Bleachable fancy was quoted at 7⅛c. per pound, tankcars, delivered; extra, 6⅞c.; special, 6⅝c.; No. 1, 6c., and edible 12c. same basis.

Fish Oils

Cod—Market was quiet and steady. Offers were light, but buying interest also was slow. Shipments were quoted nominally at 8⅝c. per pound, drums, exdock, New York prompt shipment. Stocks on spot were unchanged at 9½c. to 10c. per pound, drums, as to quantity..

Refined Fish—Consuming demand continued restricted to fill-in needs. Light pressed oil was offered at 10½c. per pound, tankcars, New York delivery, which could be shaded on a firm bid. Interest in crude menhaden oil was light. Offers were maintained at 7¼c. per pound, tankcars, f.o.b. works, Atlanta coast and 7¾c., Gulf ports.

Los Angeles.— Additional trading was reported in new crop sardine oil at 8c. per pound, f.o.b. San Pedro. Crude tuna oil inactive and quoted at 5¾c. per pound. New crop Canadian herring oil subject to production was sold at 8.52c. per pound, U. S. funds f.o.b. Vancouver.

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• MARKET RESEARCH

• PRODUCT EVALUATION

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Fatty Acids

Conditions remained on a steady basis especially for animal fatty acids, due to the higher cost of basic materials. Consuming demand continued moderate and was confined to immediate requirements. Oleic, stearic and tallow fatty acids were unchanged at the recent advance. Vegetable fatty acids also were in fair request. Prices were unchanged despite lower cost of corn, cottonseed and soybean oils.

Cake and Meal

Cottonseed Meal—Market was fairly steady despite cheap price of soybean meal and hand-to-mouth buying by consumers. Ginners continued to bring in seed in good volume but are reluctant to sell to the oil mills at the present time. Offerings of meal were ample but there was no surplus. Forty-one percent was offered at $70 per ton Memphis; $68 North Alabama; $73 South Alabama and Georgia; $71 South Carolina and North Carolina mills for immediate through October shipment.

Linseed Meal—Trading moderate at prevailing quotations.

Minneapolis.—There was a steady demand on linseed meal but the market lacked punch because of recent warm weather. Business is expected to pick up (and so are prices) as soon as freezing weather hits the northern tier of states and more feed will be needed for livestock and dairy cows. Extracted linseed meal for nearby, meanwhile, was quoted around $59 to $60.50 per short ton, bulk, carlots, f.o.b., Minneapolis. Expeller (old process) meal was priced around $68 a ton, bulk. Shipments continued heavy.

Shipments of linseed meal, in pounds, were as follows:—(year-ago total readjusted)—

	1954-55	1953-54
Past week	12,991,000	13,260,000
Since Sept. 1	54,720,000	55,360,000

Peanut Feed Meal—Very small quantities were available in the southeast. Trading was practically at a standstill. Most supplies were taken by local consumers at $76 per ton f.o.b. sacked for old process meal.

Soybean Meal—Meal for spot shipment seems to be causing a little squeeze although deferred shipments were available in ample quantities. Sales were reported at $62 per ton bulk Decatur for spot shipment, whereas October-November-December was quoted at $60 per ton. Buyers still not in the market for large quantities, awaiting the heavy bean shipment which should develop within the next couple of weeks. Restricted movements of meal into the eastern trunk line is generally selling at $1 to $2 per ton less than unrestricted meal. There is a good underlying interest between $55 and $60 per ton bulk Decatur but so far, processors have not been willing to offer at this level for deferred shipments.

Waxes

Beeswax—Fair demand was reported for crude wax for spot delivery, while interest in shipments from primary sources was inactive. Market was steady. Stocks of African crude on spot were light and held at 54c. to 56c. per pound, as to seller and quantity. Refined grades demand was confined to fill-in needs.

Carnauba—Business continued light, with consumers taking small lots for immediate needs. Prices were without change and nominal. No. 3 crude Ceara was unchanged at 71c. to 73c. per pound, spot, as to quantity and Parnahyba at 73c. to 75c. per pound. Offers of yellow for shipment from Brazil were reported practically unavailable No. 1 yellow Ceara on spot was quoted at $1.02 to $1.04 per pound and Parnahyba, $1.07 to $1.09 per pound.

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1—300 Gal. S/S Vacuum Pan.
1—Buflovak 5' x 30' Rotary Vacuum Dryer, complete.
3—Colton 5½ single punch Tablet Machines, M.D.
1—Bartlett & Snow 1800 Gal. jack. agit. closed Kettle, 10' dia. x 4' deep.
4—A. T. 60" S/S Centrifugals, center slung.
3—#12 Sweetland Pressure FILTERS, 48 leaves on 3" c/c. Leaves are bottom drainage, grooved rim, bronze with AU monel covering. Cap. each 642 sq. ft. filtering area. Excellent condition.
2—STAINLESS STEEL Baker Perkins "Termeer" Continuous Centrifugals, Model S-12-SB.
1—All MONEL Enzinger jack. pressure Filter, 8 leaves, 2.8 cu. ft. cake volume.
2—CME CONTINUOUS CENTRIFUGALS, STAINLESS STEEL, 21" solid bowl, handles 10/20 gpm 1000/2000# cake discharge per hour. 30" x 40" solid bowl, #316, handles 25/50 gpm, 2000/4000# cake discharge per hr. UNUSED. Also two lab. size 7" solid bowl and screen types, stainless steel, available for testing.

BEST BUYS

1—Read Standard horizontal double ribbon Mixer, 2000#, 480 gal.
1—#28 Devine Vacuum Shelf Dryer, 20—59" x 78" Shelves, complete.
3—3' x 50' Rotary D. H. Dryers or Coolers.
6—Sperry 18" x 18" iron recessed Filter Presses, 18 chambers.
3—Sperry iron 36x36 recessed Filter Presses, 100 chambers, 2" cake, hydr. closure.
7—Pebble Mills, 800 gal. 6' x 8'; 235 gal. 5' x 4'; 125 gal.; 50 gal.; 25 gal.
2—Link-Belt Co. ROTARY DRYERS. Reto-Louvre #502-16, Type C, 5'2" dia. 16' long, with #304 S/S contact parts. #207-10, 2'7" dia. x 10' long, carbon steel construction, and all auxiliaries.
1—Day Imperial jacketed Mixer, 75 gal.
3—Anco 4 x 9' Chilling Rolls.

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1—Buflovak 6' Vac. Crystallizer.
1—Swenson Rubber Lined Cont. Vacuum Cooling & Crystallizing Bodies 1670# Crystals per hr.
1—Al. Nell 4' x 9' Double Drum Dryer.
1—Buflovak 20 Shelf Vac. Dryer 42" x 42".
3—Stokes #138F Vac. Shelf Dryers 24" x36".
4—Devine 17 & 20 Shelf Double Dr. Vac. Dryers 59"x78".
1—Sperry 24" Press 40 Ch. 2" Cake.
3—G. L. Reactors, 50, 100 & 500 Gal.
4—Spiral Mixers 1000 to 4000#.
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4—Roball Sifters to 40" x 120".
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1—Stokes B-2 Rotary Tablet Machine.
1—S.S. Tank 2100 Gal. Horiz.

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(2) Kettles, 850 gal. S/S, Jktd. One with agitator.
Pfaudler 1500 gal. Gl. Lined Kettle, Agtd. and Jktd.
El. Dryer, 12 shelves, 36"x40".
B&P Mixer, 200 gal., Dbl. arm.
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(3) Ribbon Mixers, 1,000 lbs.
Steel Reactors, 350 gal., Agtd.
S/S Tank, horizontal, 2,000 gal.
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2—Heat Exchangers, 1440 sq. ft., 304 S.S.
3—Unused Karbate Heat Exchangers, 188 sq. ft.
2—Columns, 347 S.S., 8'x61'6", 15 trays, 50 PSI; 7'x26', 10 trays, 50 PSI.
2—Columns, 347 S.S., 6'x45'; 15 trays, 850 PSI; 6'x64'; 35 trays, 55 PSI.
2—Columns, 347 S.S., 4'x70', 45 trays, 75 PSI; 2'x39', 30 trays, 70 PSI.
1—SHARPLES DH-2 Nozljector Centrifuge 304 S.S.
1—SHARPLES C-27 SUPER-D-HYDRATOR 316 S.S.
3—SHARPLES P-16 MONEL and stainless steel Pressurite Super Centrifuge.
1—BIRD 40" SUSPENDED CENTRIFUGAL, stainless steel perforated basket.
1—BIRD 40" SUSPENDED CENTRIFUGAL rubber covered imperforate basket.
1—AT&M 36" center slung rubber covered, perforated basket, Centrifugal.
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1—NIAGARA #110-20 Pressure FILTER with 12, Type 316 S.S. leaves.
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2—#3 SWEETLAND S.S. FILTERS with 12—25" dia. leaves.
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4—LINK BELT ROTO-LOUVRE DRYERS, 7'5" x20', 3'10"x16', 2'7"x10".
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4—MIKRO PULVERIZERS, #2TH, #1SH, #1S1 and Bantam.
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1—Baker Perkins 50 gal., Type JEM, double arm, JACKETED MIXER, 50 HP motor.
2—BAKER PERKINS 100, 50 gal. double arm, JACKETED MIXERS, Sigma Blades.
3—Orville Simpson Rotex Sifters 40"x84", 20"x81", 20"x48".
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1—Link suspended 40" centrifuge motor driven S/S.
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2—90 gallon steel Abbe Engineering ball mills 30" x 42", jacketed MD.
1—2 x 4 S/S rotary vacuum drier.
12—Baker Perkins and Day Mixers. 20 to 500 gallons.
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1—4700 gal. Nickel Clad Tank.
1—2000 gal. Stainless Clad Tank.
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1—Sperry 30" Wood P&F Filter, 30 ch.
2—Sperry 24" C.I. 30 Recessed Plate.
4—Dorr Thickeners, 15' dia. & 22'.
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4—14" W. Trough Belt Conveyors—99', 47', 35'6", 22' L.
3—16" W. Trough Belt Conveyors—76', 34'6", 28' L.
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1—Jeffrey Pivoted Bucket Carrier, approx. 185 lin. ft., 16" x 18" pivoted buckets on chain, complete with drive.
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1—Dracco 250 bu/hr. Pneumatic Grain Unloader.
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1—Raymond Flash Dryer.
1—60" dia. Cop. Rectifying Column.
Lot—Copper Condensers—var. sizes.
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Nozljector, 304S/S, Clarifier type, closed feed, 15 HP, TEFC MOTOR.

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EVAPORATORS—Buflovak, double effect, SS, 488 sq. ft.

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1—Lehman 4 roll WC., 12"x36" Steel Mill.
4—Lehman & Kent 3 Roll Steel Mills, 9" x32", 12"x30", 16"x40".
1—Monarch 9"x24" Steel Roller Mill, 3 pr. high. Also 7½x20, 4 Roll.
Houchin 13"x30" 4 Roll Granite Stone Mills.
2—U.S. & Premier 1½ H.P. Colloid Mills.

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★ Baker Perkins 200 gal. Jacketed Double Arm Mixer; size 17; BB/V11.
★ Baker Perkins 2500 gal. Stainless Double Arm MIXERS
★ Stainless Tumbling Barrel Mixer 5' x 5'; baffled interior; 3 HP.
★ Lancaster Mix Mullers; Type EAG3 and EAG4 with accessories.
★ Stokes Model #5½ Single Punch Tablet Press; 3" x 1½" die; 5 HP.
★ Gruendler Supermaster No. 1 Hammer Mill with 15 HP; cap/1000 lbs.
★ FITZPATRICK STAINLESS COMMINUTATORS Model "D" and Model "K"—20 H.P.
★ Mikro No. 4 F Pulverizer; requires 40 HP motor.
★ American Ring Roll Pulverizer with 50 HP 3/60/220-440 V motor.
★ Abbe Jacketed Ball Mill 30" x 44"—Direct to 7½ H.P.
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★ Patterson Buhrstone Lined Pebble Mills; 5' x 8'; 6' x 6' and 6' x 8'.
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★ A. T. & M. 42" Type 316 Stainless Suspended Centrifugal; 30/15HP.
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★ Squier Stainless Clad Rotary Atmospheric Dryer; 30" x 20'.
★ Bagley & Sewell Double Drum Dryer; 28" x 60" with Accessories.
★ C.E. Two Stage S.S. Flash Drying System; 1000 lbs. evap. per hour.
★ Louisville Steam Tube Dryer; 54" x 40' with Cooler 38" x 20'.
★ Rotary Jacketed Vacuum Dryer; 52" x 102"; Dust Collector & access.
★ Mojonnier Stainless Vacuum Pan; 3' x 10' with Calandria Section.
★ Copper 2000 gal. Vacuum Pan; manhole type; coil heated.
★ Stainless Vacuum Still; 425 gal.; 56" x 50"; Jktd.
★ Zaremba INCONEL Double Effect Evaporator; 60" x 17' and 84" x 15'6".
★ Swenson Quadruple Effect Evaporator: Long Tube Vert. Film Type.
★ Stainless Steel Bubble Cap Column; 16 sec.; 8⅝" x 19'; complete.
★ Aluminum Column; Bubble Cap; 60 plates; 27½" dia. x 36' high.
★ Vertical Stainless Steel Condenser; 13' high; 231 S.S. Tubes; 220 sq. ft.
★ Pfaudler Glass Lined Jacketed Reactors; 150 gal., 400 gal., 1000 gal.
★ Monel 750 gal. Reactor; Jacketed and Agitated; 5' x 5'.
★ Lancaster Stainless Lined Rotary Reactor; 300 PSI; Int. 50" x 17'.
★ Dopp Cast Iron Jacketed and Agitated Kettles; 650 gal.; 61" x 68".
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1—Patterson 1500 gal. steel jacketed Reactor.

3—Type 316 Stainless Steel Jacketed Kettles, 700 gal. ea.

20—Stainless Steel Jacketed Kettles, 600 gal. ea.

1—Combustion Engineers Type 347 Stainless Steel Jacketed Autoclave, 500 gal., 300 psi. NEW.

5—Koven Stainless Steel Jacketed Kettles, 380 gal. ea.

1—150 gal. Steel Jacketed Reactor, 75 psi.

1—Pfaudler Glass Lined Jacketed Vacuum Reactor, Series R, 500 gal. with impeller type agitator and drive.

1—Patterson 200 gal. Everdur Jacketed, agitated Reactor with motor and drive.

2—Nickel Jacketed Vacuum Reactors, 500 gal. and 300 gal.

5—Aluminum Vertical Storage Tanks, 4000 gal. ea.

1—Type 316 Stainless Steel Storage Tanks, 5000 gal. ea.

1—Type 316 Stainless Steel 2800 gal. Storage Tank, w/coil.

1—Type 316 Stainless Steel Storage Tank, 1500 gal.

1—Type 347 Stainless Steel Storage Tank, 1500 gal.

1—Type 316 Stainless Steel Storage Tank, 2500 gal.

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1—Sperry 42" x 42" Aluminum Plate & Frame Filter Press with 35 chambers, 3" frames. NEW.

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1—Sparkler Model 33-D-17 type 316 Stainless Steel Jacketed Filter.

2—Shriver 24" x 24" cast iron Plate & Frame Filter Presses, 22 chambers ea.

1—Sharples Type 316 Stainless Steel Super-D-Hydrator, Model C-20.

1—Fletcher 40" Stainless Steel suspended-type Centrifuge with perforated basket.

1—Lummus Steel Bubble Cap Column, 4' x 37' with 35 trays.

1—Colonial Iron Works Monel Bubble Cap Column, 2' x 5', with 5 trays.

1—Type 304 Stainless Steel Bubble Cap Column, 6' x 18' with 7 trays.

1—Dry Dock Monel Bubble Cap Column with 13 trays.

3—Buflovak Vacuum Shelf Dryer, 20 shelves, 42" x 42".

4—Alco Steel Heat Exchanger, 450 sq. ft. ea.

2—Colonial Iron Works Monel Heat Exchangers, 350 sq. ft. and 150 sq. ft.

1—Lummus Type 316 Stainless Steel Heat Exchanger, 360 sq. ft.

6—Simpson Intensive Mixers, 18", #0, #1.

1—Day 150 gal. Stainless Steel Double Sigma Blade Mixer, complete.

1—Baker Perkins Double Arm Sigma Blade Jacketed Mixer with hydraulic tilting device, 100 gal.

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- Diamond 2—Sigma Arm Mixers, 125 gal. jckt.
- Sweetland #12 Filters, 36&48 lvs., hydr. clos.
- Sweetland #5 Filter, 15 lvs., 4" centers.
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- Tyler single deck Model 100 Screen, 18"x48".
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- Fitzpatrick Model Mill, 5 HP.
- Model B Stokeswrap. Complete (2).
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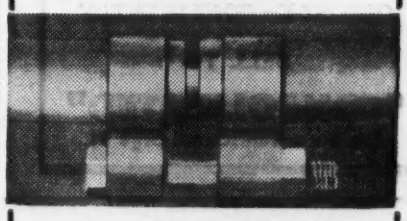

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1—Abbe Ball Mill, 140 gal., Buhrstone lined.
#316 Stainless Steel Tanks, new 100, 200 & 360 gal.
2—Nash Air Compressors, Type AL-623.
1—Manton Gaulin Stainless Homogenizer, 125 gph.
2—I&R Vacuum Pumps, 5 H.P., 60" & 160".
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15—Heat Exchangers (some stainless steel).
1—Kennedy-Van Saun Rotary Dryer, 4'x40'.
Davenport Rotary Steam Tube Dryer, 6"x30".
1—Gruendler Hammer Mill, 10 H.P.—New.
2—Stainless Steel Steam Jacketed Readco Mixers.
1—#316 Stainless Reactor, 265 gals. cap., jacketed.
Abbe Pebble & Tube Mill, 5'x22'—Buhrstone Lined.
1—Patterson Ball Mill, porcelain lined, 17"x22".
1—Patterson Ball Mill, 42x36, jacketed.
3—Dopp Kettles with agitators. 600 gal. cap.
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Oregon Bioproducts Gets Loan

Oregon Bioproducts Ltd., Warrenton, Ore., engaged in the manufacture of fish oils and pharmaceuticals from fish waste, has received a loan of $40,000 from the Small Business Administration, it was announced last week. The firm employs thirty-one persons.

Dyes Data More Detailed

—Continued from page 5

with the importation of any coaltar colors, dyes, stains, color acids, color basis, color lakes, leuco and indoxyl compounds under the new regulations follows:—

Data Required for Filing

1. Invoice name of product.
2. Trade name of product.
3. Name of manufacturer.
4. Name(s) under which sold in country of production.
5. Names(s) of comparable American made product with name of US manufacturer (if none or unknown, so state).
6. Percentage of active ingredient.
7. Schultz number (if none, state).
8. Color index number (if none, so state).
9. US standard number (if none, so state). If no number is inserted in Items 7, 8, or 9, the following additional information must be submitted:
10. Foreign prototype number (if none or unknown, so state).
11. Method of application (state whether acid, basic, direct, direct and developed, mordant, mordant acid, neutral, oil, oil and spirit, printing, spirit soluble, vat (soluble), vat (insoluble), or other (describe); and state nature of pre-treatment or after-treatment, if any).
12. Material to which applied (name the material or materials for which the color or dye is primarily designed).
    - A. Fibrous materials:—
      - (1) Natural; cotton; silk; wool; hemp; flax (linen); jute; ramie; straw and grass; sisal; other animal or vegetable fibers.
      - (2) Synthetic (including regenerated and modified cellulose); acetate (celanese, acele, koda); rayon-cuprammonium (Bemberg, Matesa); viscose (Avisco, Delray); polyamide (nylon, perlon); acrylic (Dynel, Acrilan, Orlon); (vinylidene chloride (Saran, Velon); polyethylene (Wynene, Reevon); polyester (Dacron, Terylene); protein (Azlon, Lanital, Aralac); glass; other.
    - B. Non-fibrous materials:—
      Plastics; leather; paper; cellophane; photographic sensitizers, desensitizers, light filters and tinting film; foodstuffs; biological materials; solutions, analytical; oils, fats, and waxes; soap; gasoline; paints, lacquers, stains, and inks; smoke (signals); aluminum; earthenware; other.
13. Chemical classification; acridine; aminoketone; anthraquinone; azine; azo, monoazo, dis-; azo, tris-; azo, tetrakis-; azo, poly-; azo, metal complex; azo, pigment; azoic; color acid; color base; color lake; cyanine; esters of leuco indigoid; esters of leuco thioindigoid; esters of leuco antraquinone; fluorescent; hydroxyketone; indamine; indigoid; indoaniline, indophenol; indoxyl; indoxyl compound; ketol; ketonimine; lactone; leuco compound; methane, diphenylnaphthyl-; methane, triphenyl-; methine, aza-; mehtine, poly-; nitro; nitroso; oxazine; phthalocyanine; quinoline; quinonoid; sulfur or sulfide; thiazine; thiazole; thioindigoid; xanthene; other.
    - A. Describe the class or classes and subclass to which the product belongs.
      Example (1):
      Gamma-acid coupling.
      Monoazo.
      Example (2):
      Xanthen—basic.
      Oxy-carboxy rhodamines.
    - B. Give any other information which you consider may be helpful in classifying the product.
      Example (1):
      Insoluble azo dye on the fiber. Mixtures of stabilized diazo amino compounds and coupling components for preparation of the dye on the fiber.
      Example (2):
      Anthraquinones—dispersion type.
      Amino-oxy anthraquinones.
14. If the product consists of a mixture of two or more active ingredients, the information required by the preceding numbered paragraphs shall be given for each active ingredient in the mixture, together with the proportion of each active ingredient in the mixture.
15. There shall be attached to the above specifications a color pattern or card showing typical small specimens of the material to which the color or dye has been applied with an indication of the strength and the method of application.

Synthetic Organics Higher

—Continued from page 3

4,939,000 pounds—424,000,000 pounds more than the output reported for 1952. Production in 1953 of finished acyclic products and acyclic intermediates totaled 19,491,000,000 pounds, compared with the 17,433,000,000 pounds produced in the previous year.

The only individual groups of finished synthetic organic chemicals with respect to which the total output was less in 1953 than in 1952 were medicinals which showed a decline of 0.3 percent and pesticides and other organic agricultural chemicals which declined 14.8 percent. Increases in output in 1953 compared with the preceding year were reported for surface-active agents (24.3 percent); flavor and perfume materials (22.1 percent); plastics and resin materials (19.0 percent); dyes (14.2 percent); rubber-processing chemicals (13.7 percent); toners and lakes (13.6 percent); miscellaneous chemicals (11.2 percent); plasticizers (9.4 percent), and elastomers (3.7 percent).

Preliminary reports on the production and sales in 1953 of the several individual groups of synthetic organic chemicals and their raw materials were issued by the Tariff Commission earlier this year.

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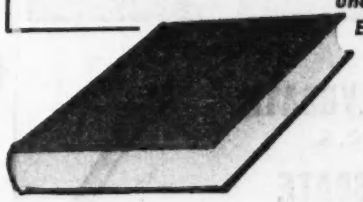

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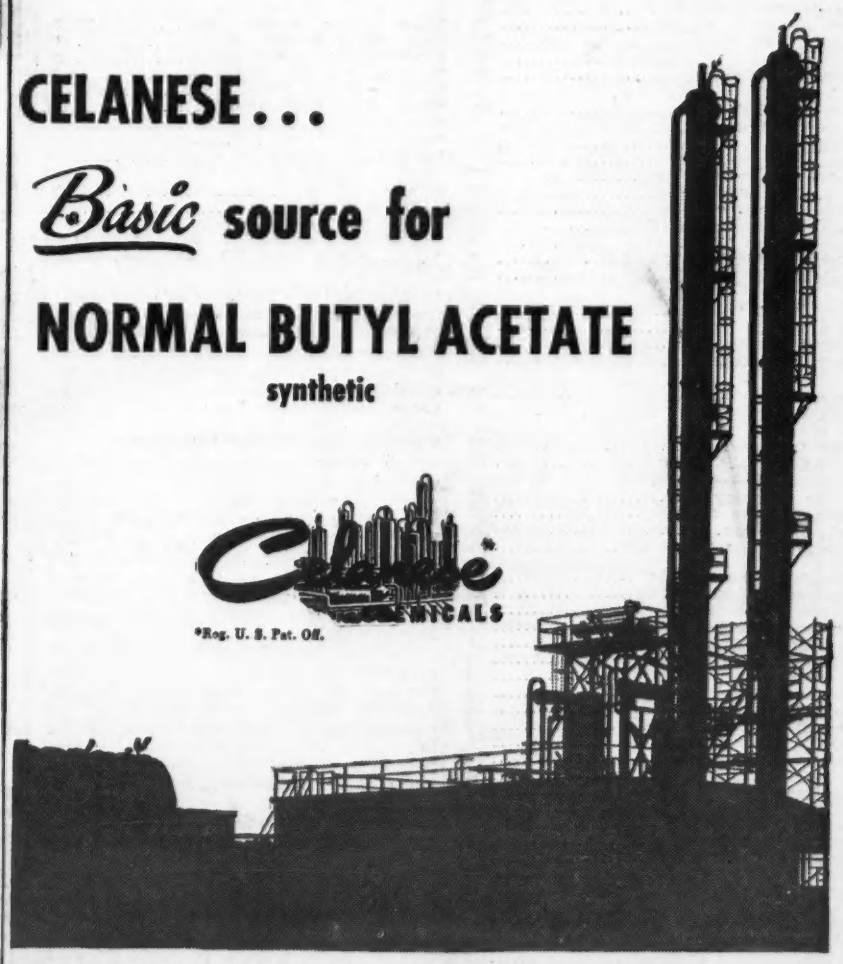

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